

## 2006-2016 Arizona Statewide Occupational Projections

Standard Occupation Classification (SOC) <sup>1</sup>		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2006 Estimated	2016 Projected	Number	Percent	Due to Growth	Due to Separations	Total <sup>2</sup>
00-0000	Total, All Occupations	2,885,072	3,323,530	438,458	15.2%	45,791	64,970	110,761
<b>11-0000</b>	<b>Management Occupations</b>	<b>161,132</b>	<b>179,858</b>	<b>18,726</b>	<b>11.6%</b>	<b>1,875</b>	<b>3,416</b>	<b>5,291</b>
11-1000	Top Executives	43,524	45,933	2,409	5.5%	241	1,072	1,313
11-1011	Chief Executives	8,280	8,524	244	2.9%	24	226	250
11-1021	General and Operations Managers	34,374	36,537	2,163	6.3%	216	829	1,045
11-1031	Legislators	870	872	2	0.2%	0	17	17
11-2000	Advertising, Marketing, Promotions, Public Relations, and Sales Managers	15,061	17,045	1,984	13.2%	198	336	534
11-2011	Advertising and Promotions Managers	1,055	1,120	65	6.2%	7	23	30
11-2021	Marketing Managers	3,795	4,292	497	13.1%	50	84	134
11-2022	Sales Managers	9,184	10,384	1,200	13.1%	120	204	324
11-2031	Public Relations Managers	1,027	1,249	222	21.6%	22	24	46
11-3000	Operations Specialties Managers	28,095	32,101	4,006	14.3%	403	574	977
11-3011	Administrative Services Managers	5,130	5,965	835	16.3%	84	136	220
11-3021	Computer and Information Systems Managers	4,568	5,265	697	15.3%	70	74	144
11-3031	Financial Managers	10,094	11,741	1,647	16.3%	165	147	312
11-3041	Compensation and Benefits Managers	1,087	1,263	176	16.2%	18	20	38
11-3042	Training and Development Managers	823	952	129	15.7%	13	16	29
11-3049	Human Resources Managers, All Other	1,439	1,638	199	13.8%	20	27	47
11-3051	Industrial Production Managers	2,001	1,982	-19	-0.9%	0	69	69
11-3061	Purchasing Managers	1,522	1,677	155	10.2%	16	44	60
11-3071	Transportation, Storage, and Distribution Managers	1,431	1,618	187	13.1%	19	43	62
11-9000	Other Management Occupations	74,452	84,779	10,327	13.9%	1,033	1,434	2,467
11-9011	Farm, Ranch, and Other Agricultural Managers	2,908	3,173	265	9.1%	27	21	48
11-9021	Construction Managers	9,437	10,048	611	6.5%	61	146	207
11-9031	Education Administrators, Preschool and Child Care	1,282	1,644	362	28.2%	36	36	72
11-9032	Education Administrators, Elementary and Secondary School	3,388	4,154	766	22.6%	77	94	171
11-9033	Education Administrators, Postsecondary	2,488	3,609	1,121	45.1%	112	69	181
11-9039	Education Administrators, All Other	411	465	54	13.1%	5	12	17
11-9041	Engineering Managers	5,422	6,166	744	13.7%	74	110	184
11-9051	Food Service Managers	9,516	10,196	680	7.1%	68	225	293
11-9061	Funeral Directors	408	464	56	13.7%	6	10	16
11-9071	Gaming Managers	620	671	51	8.2%	5	12	17
11-9081	Lodging Managers	2,594	2,716	122	4.7%	12	57	69
11-9111	Medical and Health Services Managers	5,778	6,943	1,165	20.2%	117	108	225
11-9121	Natural Sciences Managers	442	576	134	30.3%	13	10	23

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11-9131	Postmasters and Mail Superintendents	188	193	5	2.7%	1	5	6
11-9141	Property, Real Estate, and Community Association Managers							
		10,773	12,127	1,354	12.6%	135	149	284
11-9151	Social and Community Service Managers	2,936	3,545	609	20.7%	61	56	117
11-9199	Managers, All Other	15,861	18,089	2,228	14.0%	223	316	539
<b>13-0000</b>	<b>Business and Financial Operations Occupations</b>	<b>128,831</b>	<b>155,902</b>	<b>27,071</b>	<b>21.0%</b>	<b>2,707</b>	<b>2,291</b>	<b>4,998</b>
13-1000	Business Operations Specialists	70,354	83,897	13,543	19.2%	1,354	1,274	2,628
13-1011	Agents and Business Managers of Artists, Performers, and	893	1,293	400	44.8%	40	24	64
13-1021	Purchasing Agents and Buyers, Farm Products	409	431	22	5.4%	2	5	7
13-1022	Wholesale and Retail Buyers, Except Farm Products	3,206	3,350	144	4.5%	14	72	86
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm	6,059	6,571	512	8.5%	51	130	181
13-1031	Claims Adjusters, Examiners, and Investigators	3,619	4,423	804	22.2%	80	92	172
13-1032	Insurance Appraisers, Auto Damage	168	189	21	12.5%	2	4	6
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	4,321	4,687	366	8.5%	37	50	87
13-1051	Cost Estimators	4,810	5,538	728	15.1%	73	99	172
13-1061	Emergency Management Specialists	123	127	4	3.3%	0	1	1
13-1071	Employment, Recruitment, and Placement Specialists	4,137	5,179	1,042	25.2%	104	89	193
13-1072	Compensation, Benefits, and Job Analysis Specialists	2,290	2,834	544	23.8%	54	49	103
13-1073	Training and Development Specialists	5,894	7,186	1,292	21.9%	129	127	256
13-1079	Human Resources, Training, and Labor Relations Specialists, All Other	2,764	3,493	729	26.4%	73	60	133
13-1081	Logisticians	1,796	2,051	255	14.2%	26	27	53
13-1111	Management Analysts	17,586	21,213	3,627	20.6%	363	300	663
13-1121	Meeting and Convention Planners	1,384	1,614	230	16.6%	23	28	51
13-1199	Business Operations Specialists, All Other	10,895	13,718	2,823	25.9%	282	117	399
13-2000	Financial Specialists	58,477	72,005	13,528	23.1%	1,353	1,017	2,370
13-2011	Accountants and Auditors	25,939	33,156	7,217	27.8%	722	456	1,178
13-2021	Appraisers and Assessors of Real Estate	3,813	4,691	878	23.0%	88	76	164
13-2031	Budget Analysts	1,550	1,634	84	5.4%	8	36	44
13-2041	Credit Analysts	3,919	4,411	492	12.6%	49	150	199
13-2051	Financial Analysts	3,821	5,182	1,361	35.6%	136	22	158
13-2052	Personal Financial Advisors	3,837	5,225	1,388	36.2%	139	35	174
13-2053	Insurance Underwriters	1,495	1,571	76	5.1%	8	40	48
13-2061	Financial Examiners	1,121	1,466	345	30.8%	35	20	55
13-2071	Loan Counselors	912	1,125	213	23.4%	21	10	31
13-2072	Loan Officers	8,296	9,377	1,081	13.0%	108	89	197
13-2081	Tax Examiners, Collectors, and Revenue Agents	684	725	41	6.0%	4	17	21
13-2082	Tax Preparers	1,744	1,916	172	9.9%	17	31	48

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13-2099	Financial Specialists, All Other	1,346	1,526	180	13.4%	18	36	54
<b>15-0000</b>	<b>Computer and Mathematical Occupations</b>	<b>62,309</b>	<b>75,913</b>	<b>13,604</b>	<b>21.8%</b>	<b>1,409</b>	<b>1,370</b>	<b>2,779</b>
15-1000	Computer Specialists	59,491	72,850	13,359	22.5%	1,384	1,309	2,693
15-1011	Computer and Information Scientists, Research	255	299	44	17.3%	4	7	11
15-1021	Computer Programmers	7,467	6,984	-483	-6.5%	0	156	156
15-1031	Computer Software Engineers, Applications	9,035	12,519	3,484	38.6%	348	132	480
15-1032	Computer Software Engineers, Systems Software	6,942	8,124	1,182	17.0%	118	101	219
15-1041	Computer Support Specialists	12,827	14,981	2,154	16.8%	215	396	611
15-1051	Computer Systems Analysts	8,463	10,733	2,270	26.8%	227	224	451
15-1061	Database Administrators	3,054	3,981	927	30.4%	93	33	126
15-1071	Network and Computer Systems Administrators	4,834	6,163	1,329	27.5%	133	110	243
15-1081	Network Systems and Data Communications Analysts	4,180	6,375	2,195	52.5%	220	85	305
15-1099	Computer Specialists, All Other	2,434	2,691	257	10.6%	26	65	91
15-2000	Mathematical Scientists	2,818	3,063	245	8.7%	25	61	86
15-2011	Actuaries	137	157	20	14.6%	2	5	7
15-2031	Operations Research Analysts	2,433	2,625	192	7.9%	19	49	68
15-2041	Statisticians	200	222	22	11.0%	2	6	8
<b>17-0000</b>	<b>Architecture and Engineering Occupations</b>	<b>48,939</b>	<b>53,063</b>	<b>4,124</b>	<b>8.4%</b>	<b>522</b>	<b>1,094</b>	<b>1,616</b>
17-1000	Architects, Surveyors, and Cartographers	2,804	3,388	584	20.8%	58	70	128
17-1011	Architects, Except Landscape and Naval	961	1,146	185	19.3%	19	18	37
17-1012	Landscape Architects	396	478	82	20.7%	8	8	16
17-1021	Cartographers and Photogrammetrists	415	491	76	18.3%	8	13	21
17-1022	Surveyors	1,032	1,273	241	23.4%	24	32	56
17-2000	Engineers	30,920	33,815	2,895	9.4%	358	697	1,055
17-2011	Aerospace Engineers	3,060	3,485	425	13.9%	43	61	104
17-2031	Biomedical Engineers	139	177	38	27.3%	4	3	7
17-2041	Chemical Engineers	278	350	72	25.9%	7	7	14
17-2051	Civil Engineers	2,505	2,968	463	18.5%	46	66	112
17-2071	Electrical Engineers	5,486	6,189	703	12.8%	70	127	197
17-2072	Electronics Engineers, Except Computer	3,500	3,033	-467	-13.3%	0	81	81
17-2081	Environmental Engineers	549	646	97	17.7%	10	16	26
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	686	784	98	14.3%	10	17	27
17-2112	Industrial Engineers	3,500	4,252	752	21.5%	75	84	159
17-2131	Materials Engineers	640	573	-67	-10.5%	0	15	15
17-2141	Mechanical Engineers	4,500	5,037	537	11.9%	54	98	152
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	230	288	58	25.2%	6	5	11
17-2161	Nuclear Engineers	995	1,115	120	12.1%	12	23	35

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17-2199	Engineers, All Other	2,864	3,068	204	7.1%	20	34	54
17-3000	Drafters, Engineering, and Mapping Technicians	15,215	15,860	645	4.2%	105	327	432
17-3011	Architectural and Civil Drafters	1,282	1,418	136	10.6%	14	37	51
17-3012	Electrical and Electronics Drafters	536	523	-13	-2.4%	0	15	15
17-3013	Mechanical Drafters	1,277	1,516	239	18.7%	24	37	61
17-3022	Civil Engineering Technicians	1,080	1,247	167	15.5%	17	21	38
17-3023	Electrical and Electronic Engineering Technicians	5,568	5,218	-350	-6.3%	0	109	109
17-3024	Electro-Mechanical Technicians	461	477	16	3.5%	2	9	11
17-3025	Environmental Engineering Technicians	380	496	116	30.5%	12	7	19
17-3026	Industrial Engineering Technicians	1,252	1,206	-46	-3.7%	0	24	24
17-3027	Mechanical Engineering Technicians	941	1,047	106	11.3%	11	18	29
17-3029	Engineering Technicians, Except Drafters, All Other	1,405	1,512	107	7.6%	11	27	38
17-3031	Surveying and Mapping Technicians	697	818	121	17.4%	12	13	25
<b>19-0000</b>	<b>Life, Physical, and Social Science Occupations</b>	<b>18,643</b>	<b>22,758</b>	<b>4,115</b>	<b>22.1%</b>	<b>412</b>	<b>425</b>	<b>837</b>
19-1000	Life Scientists	2,306	2,930	624	27.1%	62	63	125
19-1012	Food Scientists and Technologists	72	95	23	31.9%	2	2	4
19-1013	Soil and Plant Scientists	71	74	3	4.2%	0	2	2
19-1023	Zoologists and Wildlife Biologists	300	319	19	6.3%	2	6	8
19-1029	Biological Scientists, All Other	369	423	54	14.6%	5	8	13
19-1031	Conservation Scientists	207	247	40	19.3%	4	6	10
19-1041	Epidemiologists	76	87	11	14.5%	1	2	3
19-1042	Medical Scientists, Except Epidemiologists	381	497	116	30.4%	12	12	24
19-1099	Life Scientists, All Other	116	151	35	30.2%	4	4	8
19-2000	Physical Scientists	2,540	3,073	533	21.0%	53	63	116
19-2021	Atmospheric and Space Scientists	151	159	8	5.3%	1	4	5
19-2031	Chemists	625	757	132	21.1%	13	17	30
19-2032	Materials Scientists	116	134	18	15.5%	2	3	5
19-2041	Environmental Scientists and Specialists, Including Health	662	848	186	28.1%	19	17	36
19-2042	Geoscientists, Except Hydrologists and Geographers	170	215	45	26.5%	5	4	9
19-2043	Hydrologists	255	299	44	17.3%	4	7	11
19-3000	Social Scientists and Related Workers	9,485	11,328	1,843	19.4%	184	140	324
19-3011	Economists	103	115	12	11.7%	1	3	4
19-3021	Market Research Analysts	3,623	4,243	620	17.1%	62	25	87
19-3022	Survey Researchers	936	1,250	314	33.5%	31	6	37
19-3031	Clinical, Counseling, and School Psychologists	2,498	3,183	685	27.4%	69	38	107
19-3039	Psychologists, All Other	245	288	43	17.6%	4	4	8
19-3041	Sociologists	50	69	19	38.0%	2	1	3
19-3051	Urban and Regional Planners	747	824	77	10.3%	8	22	30
19-3091	Anthropologists and Archeologists	154	181	27	17.5%	3	5	8

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19-3099	Social Scientists and Related Workers, All Other	1,078	1,120	42	3.9%	4	34	38
19-4000	Life, Physical, and Social Science Technicians	4,312	5,427	1,115	25.9%	112	159	271
19-4021	Biological Technicians	295	362	67	22.7%	7	11	18
19-4031	Chemical Technicians	375	428	53	14.1%	5	13	18
19-4061	Social Science Research Assistants	182	271	89	48.9%	9	7	16
19-4091	Environmental Science and Protection Technicians, Including	621	898	277	44.6%	28	24	52
19-4092	Forensic Science Technicians	459	585	126	27.5%	13	18	31
19-4093	Forest and Conservation Technicians	1,158	1,255	97	8.4%	10	44	54
19-4099	Life, Physical, and Social Science Technicians, All Other	1,008	1,397	389	38.6%	39	38	77
<b>21-0000</b>	<b>Community and Social Services Occupations</b>	<b>28,735</b>	<b>37,077</b>	<b>8,342</b>	<b>29.0%</b>	<b>834</b>	<b>492</b>	<b>1,326</b>
21-1000	Counselors, Social Workers, and Other Community and Social Service Specialists	25,974	33,638	7,664	29.5%	766	449	1,215
21-1011	Substance Abuse and Behavioral Disorder Counselors	470	634	164	34.9%	16	9	25
21-1012	Educational, Vocational, and School Counselors	5,932	8,009	2,077	35.0%	208	118	326
21-1013	Marriage and Family Therapists	358	491	133	37.2%	13	7	20
21-1014	Mental Health Counselors	1,278	1,795	517	40.5%	52	25	77
21-1015	Rehabilitation Counselors	661	816	155	23.4%	16	13	29
21-1019	Counselors, All Other	253	305	52	20.6%	5	5	10
21-1021	Child, Family, and School Social Workers	3,614	4,213	599	16.6%	60	76	136
21-1022	Medical and Public Health Social Workers	1,829	2,435	606	33.1%	61	39	100
21-1023	Mental Health and Substance Abuse Social Workers	1,659	2,060	401	24.2%	40	35	75
21-1029	Social Workers, All Other	720	895	175	24.3%	18	15	33
21-1091	Health Educators	1,004	1,502	498	49.6%	50	12	62
21-1092	Probation Officers and Correctional Treatment Specialists	3,696	4,133	437	11.8%	44	43	87
21-1093	Social and Human Service Assistants	3,491	5,057	1,566	44.9%	157	40	197
21-1099	Community and Social Service Specialists, All Other	1,009	1,293	284	28.1%	28	12	40
21-2000	Religious Workers	2,761	3,439	678	24.6%	68	43	111
21-2021	Directors, Religious Activities and Education	943	1,215	272	28.8%	27	22	49
<b>23-0000</b>	<b>Legal Occupations</b>	<b>22,987</b>	<b>27,413</b>	<b>4,426</b>	<b>19.3%</b>	<b>443</b>	<b>400</b>	<b>843</b>
23-1000	Lawyers, Judges, and Related Workers	14,238	17,154	2,916	20.5%	292	270	562
23-1011	Lawyers	13,187	16,019	2,832	21.5%	283	250	533
23-1023	Judges, Magistrate Judges, and Magistrates	575	615	40	7.0%	4	11	15
23-2000	Legal Support Workers	8,749	10,259	1,510	17.3%	151	130	281
23-2011	Paralegals and Legal Assistants	4,487	5,865	1,378	30.7%	138	59	197
23-2091	Court Reporters	368	409	41	11.1%	4	6	10
23-2092	Law Clerks	1,290	1,303	13	1.0%	1	21	22
23-2093	Title Examiners, Abstractors, and Searchers	2,221	2,263	42	1.9%	4	37	41
23-2099	Legal Support Workers, All Other	383	419	36	9.4%	4	6	10
<b>25-0000</b>	<b>Education, Training, and Library Occupations</b>	<b>131,244</b>	<b>170,119</b>	<b>38,875</b>	<b>29.6%</b>	<b>3,888</b>	<b>2,744</b>	<b>6,632</b>



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25-1000	Postsecondary Teachers	20,939	31,939	11,000	52.5%	1,100	350	1,450
25-1011	Business Teachers, Postsecondary	1,281	1,772	491	38.3%	49	21	70
25-1021	Computer Science Teachers, Postsecondary	1,350	2,018	668	49.5%	67	23	90
25-1022	Mathematical Science Teachers, Postsecondary	756	1,003	247	32.7%	25	13	38
25-1041	Agricultural Sciences Teachers, Postsecondary	67	98	31	46.3%	3	1	4
25-1042	Biological Science Teachers, Postsecondary	622	939	317	51.0%	32	10	42
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	106	163	57	53.8%	6	2	8
25-1052	Chemistry Teachers, Postsecondary	291	457	166	57.0%	17	5	22
25-1053	Environmental Science Teachers, Postsecondary	107	182	75	70.1%	8	2	10
25-1054	Physics Teachers, Postsecondary	69	105	36	52.2%	4	1	5
25-1061	Anthropology and Archeology Teachers, Postsecondary	83	121	38	45.8%	4	1	5
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	188	286	98	52.1%	10	3	13
25-1063	Economics Teachers, Postsecondary	65	101	36	55.4%	4	1	5
25-1064	Geography Teachers, Postsecondary	118	167	49	41.5%	5	2	7
25-1065	Political Science Teachers, Postsecondary	128	177	49	38.3%	5	2	7
25-1066	Psychology Teachers, Postsecondary	108	143	35	32.4%	4	2	6
25-1067	Sociology Teachers, Postsecondary	85	118	33	38.8%	3	1	4
25-1071	Health Specialties Teachers, Postsecondary	1,684	2,758	1,074	63.8%	107	28	135
25-1072	Nursing Instructors and Teachers, Postsecondary	547	750	203	37.1%	20	9	29
25-1081	Education Teachers, Postsecondary	276	382	106	38.4%	11	5	16
25-1111	Criminal Justice and Law Enforcement Teachers,	209	271	62	29.7%	6	4	10
25-1121	Art, Drama, and Music Teachers, Postsecondary	498	767	269	54.0%	27	8	35
25-1122	Communications Teachers, Postsecondary	279	397	118	42.3%	12	5	17
25-1123	English Language and Literature Teachers, Postsecondary	1,140	1,683	543	47.6%	54	19	73
25-1124	Foreign Language and Literature Teachers, Postsecondary	265	372	107	40.4%	11	4	15
25-1125	History Teachers, Postsecondary	210	285	75	35.7%	8	4	12
25-1126	Philosophy and Religion Teachers, Postsecondary	152	210	58	38.2%	6	3	9
25-1191	Graduate Teaching Assistants	3,338	5,655	2,317	69.4%	232	56	288
25-1194	Vocational Education Teachers, Postsecondary	2,214	3,318	1,104	49.9%	110	37	147
25-1199	Postsecondary Teachers, All Other	2,947	4,339	1,392	47.2%	139	49	188
25-2000	Primary, Secondary, and Special Education School Teachers	76,283	96,019	19,736	25.9%	1,974	1,779	3,753
25-2011	Preschool Teachers, Except Special Education	5,573	6,438	865	15.5%	87	92	179
25-2012	Kindergarten Teachers, Except Special Education	2,877	3,814	937	32.6%	94	48	142
25-2021	Elementary School Teachers, Except Special Education	36,372	47,076	10,704	29.4%	1,070	794	1,864
25-2022	Middle School Teachers, Except Special and Vocational Education	7,230	9,170	1,940	26.8%	194	158	352

Standard Occupation Classification (SOC) <sup>1</sup>		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2006 Estimated	2016 Projected	Number	Percent	Due to Growth	Due to Separations	Total <sup>2</sup>
25-2031	Secondary School Teachers, Except Special and Vocational Education	18,914	22,828	3,914	20.7%	391	563	954
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	2,424	3,262	838	34.6%	84	54	138
25-2042	Special Education Teachers, Middle School	849	1,102	253	29.8%	25	19	44
25-2043	Special Education Teachers, Secondary School	1,005	1,202	197	19.6%	20	22	42
25-3000	Other Teachers and Instructors	5,890	8,095	2,205	37.4%	221	63	284
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	1,247	1,701	454	36.4%	45	13	58
25-3021	Self-Enrichment Education Teachers	2,392	3,440	1,048	43.8%	105	26	131
25-3099	Teachers and Instructors, All Other	2,251	2,954	703	31.2%	70	24	94
25-4000	Librarians, Curators, and Archivists	4,656	5,538	882	18.9%	88	178	266
25-4011	Archivists	92	106	14	15.2%	1	4	5
25-4012	Curators	302	372	70	23.2%	7	13	20
25-4013	Museum Technicians and Conservators	226	264	38	16.8%	4	10	14
25-4021	Librarians	2,100	2,448	348	16.6%	35	57	92
25-4031	Library Technicians	1,936	2,348	412	21.3%	41	94	135
25-9000	Other Education, Training, and Library Occupations	23,476	28,528	5,052	21.5%	505	374	879
25-9031	Instructional Coordinators	2,716	3,834	1,118	41.2%	112	37	149
25-9041	Teacher Assistants	20,304	24,218	3,914	19.3%	391	331	722
25-9099	Education, Training, and Library Workers, All Other	381	399	18	4.7%	2	5	7
<b>27-0000</b>	<b>Arts, Design, Entertainment, Sports, and Media</b>	<b>41,734</b>	<b>47,432</b>	<b>5,698</b>	<b>13.7%</b>	<b>589</b>	<b>1,017</b>	<b>1,606</b>
27-1000	Art and Design Workers	15,025	16,726	1,701	11.3%	171	391	562
27-1011	Art Directors	938	989	51	5.4%	5	22	27
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	441	532	91	20.6%	9	10	19
27-1014	Multi-Media Artists and Animators	932	1,091	159	17.1%	16	22	38
27-1019	Artists and Related Workers, All Other	115	132	17	14.8%	2	3	5
27-1021	Commercial and Industrial Designers	632	664	32	5.1%	3	17	20
27-1023	Floral Designers	1,382	1,378	-4	-0.3%	0	37	37
27-1024	Graphic Designers	5,919	6,629	710	12.0%	71	157	228
27-1025	Interior Designers	1,779	1,944	165	9.3%	17	47	64
27-1026	Merchandise Displayers and Window Trimmers	2,323	2,713	390	16.8%	39	62	101
27-1027	Set and Exhibit Designers	152	200	48	31.6%	5	4	9
27-1029	Designers, All Other	278	320	42	15.1%	4	7	11
27-2000	Entertainers and Performers, Sports and Related Workers	6,978	8,510	1,532	22.0%	153	192	345
27-2012	Producers and Directors	1,173	1,349	176	15.0%	18	35	53
27-2022	Coaches and Scouts	1,849	2,359	510	27.6%	51	48	99
27-2023	Umpires, Referees, and Other Sports Officials	1,116	1,228	112	10.0%	11	29	40
27-2041	Music Directors and Composers	206	268	62	30.1%	6	4	10

Standard Occupation Classification (SOC) <sup>1</sup>		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2006 Estimated	2016 Projected	Number	Percent	Due to Growth	Due to Separations	Total <sup>2</sup>
27-2042	Musicians and Singers	896	1,186	290	32.4%	29	18	47
27-3000	Media and Communication Workers	13,708	15,227	1,519	11.1%	170	282	452
27-3011	Radio and Television Announcers	1,182	1,049	-133	-11.3%	0	40	40
27-3012	Public Address System and Other Announcers	165	153	-12	-7.3%	0	6	6
27-3021	Broadcast News Analysts	64	64	0	0.0%	0	2	2
27-3022	Reporters and Correspondents	586	554	-32	-5.5%	0	18	18
27-3031	Public Relations Specialists	3,816	4,612	796	20.9%	80	29	109
27-3041	Editors	1,534	1,631	97	6.3%	10	46	56
27-3042	Technical Writers	1,025	1,155	130	12.7%	13	31	44
27-3043	Writers and Authors	2,830	3,085	255	9.0%	26	51	77
27-3091	Interpreters and Translators	1,293	1,573	280	21.7%	28	31	59
27-3099	Media and Communication Workers, All Other	1,213	1,351	138	11.4%	14	29	43
27-4000	Media and Communication Equipment Workers	6,023	6,969	946	15.7%	95	152	247
27-4011	Audio and Video Equipment Technicians	1,252	1,911	659	52.6%	66	41	107
27-4012	Broadcast Technicians	474	535	61	12.9%	6	15	21
27-4021	Photographers	3,402	3,448	46	1.4%	5	75	80
27-4031	Camera Operators, Television, Video, and Motion Picture	298	357	59	19.8%	6	6	12
27-4032	Film and Video Editors	208	224	16	7.7%	2	4	6
27-4099	Media and Communication Equipment Workers, All Other	205	235	30	14.6%	3	5	8
<b>29-0000</b>	<b>Healthcare Practitioners and Technical Occupations</b>	<b>120,182</b>	<b>156,636</b>	<b>36,454</b>	<b>30.3%</b>	<b>3,647</b>	<b>2,330</b>	<b>5,977</b>
29-1000	Health Diagnosing and Treating Practitioners	72,488	94,129	21,641	29.9%	2,165	1,225	3,390
29-1011	Chiropractors	214	295	81	37.9%	8	2	10
29-1021	Dentists, General	3,792	4,897	1,105	29.1%	111	74	185
29-1029	Dentists, All Other Specialists	95	109	14	14.7%	1	2	3
29-1031	Dietitians and Nutritionists	1,319	1,637	318	24.1%	32	33	65
29-1041	Optometrists	414	411	-3	-0.7%	0	7	7
29-1051	Pharmacists	4,314	6,206	1,892	43.9%	189	75	264
29-1062	Family and General Practitioners	1,790	2,244	454	25.4%	45	32	77
29-1064	Obstetricians and Gynecologists	411	510	99	24.1%	10	7	17
29-1065	Pediatricians, General	961	1,150	189	19.7%	19	17	36
29-1066	Psychiatrists	137	165	28	20.4%	3	3	6
29-1067	Surgeons	771	900	129	16.7%	13	14	27
29-1069	Physicians and Surgeons, All Other	3,057	3,822	765	25.0%	77	55	132
29-1071	Physician Assistants	1,914	2,484	570	29.8%	57	26	83
29-1081	Podiatrists	176	217	41	23.3%	4	6	10
29-1111	Registered Nurses	36,219	47,647	11,428	31.6%	1,143	598	1,741
29-1122	Occupational Therapists	1,271	1,612	341	26.8%	34	19	53
29-1123	Physical Therapists	1,964	2,567	603	30.7%	60	24	84
29-1125	Recreational Therapists	196	206	10	5.1%	1	3	4



Standard Occupation Classification (SOC) <sup>1</sup>		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2006 Estimated	2016 Projected	Number	Percent	Due to Growth	Due to Separations	Total <sup>2</sup>
29-1126	Respiratory Therapists	3,086	4,042	956	31.0%	96	45	141
29-1127	Speech-Language Pathologists	1,556	1,865	309	19.9%	31	30	61
29-1129	Therapists, All Other	134	151	17	12.7%	2	2	4
29-1131	Veterinarians	1,156	1,683	527	45.6%	53	23	76
29-1199	Health Diagnosing and Treating Practitioners, All Other	3,669	4,593	924	25.2%	92	63	155
29-2000	Health Technologists and Technicians	44,790	59,056	14,266	31.9%	1,427	1,049	2,476
29-2011	Medical and Clinical Laboratory Technologists	2,353	2,950	597	25.4%	60	36	96
29-2012	Medical and Clinical Laboratory Technicians	2,411	3,230	819	34.0%	82	36	118
29-2021	Dental Hygienists	3,625	5,440	1,815	50.1%	182	69	251
29-2031	Cardiovascular Technologists and Technicians	1,172	1,548	376	32.1%	38	16	54
29-2032	Diagnostic Medical Sonographers	825	1,066	241	29.2%	24	11	35
29-2033	Nuclear Medicine Technologists	370	462	92	24.9%	9	5	14
29-2034	Radiologic Technologists and Technicians	4,149	5,311	1,162	28.0%	116	56	172
29-2041	Emergency Medical Technicians and Paramedics	1,307	1,616	309	23.6%	31	15	46
29-2051	Dietetic Technicians	746	888	142	19.0%	14	23	37
29-2052	Pharmacy Technicians	5,495	8,645	3,150	57.3%	315	168	483
29-2053	Psychiatric Technicians	1,529	1,915	386	25.2%	39	47	86
29-2055	Surgical Technologists	1,096	1,498	402	36.7%	40	34	74
29-2056	Veterinary Technologists and Technicians	1,692	2,750	1,058	62.5%	106	52	158
29-2061	Licensed Practical and Licensed Vocational Nurses	11,810	13,989	2,179	18.5%	218	322	540
29-2071	Medical Records and Health Information Technicians	4,592	5,701	1,109	24.2%	111	124	235
29-2081	Opticians, Dispensing	819	1,121	302	36.9%	30	26	56
29-2099	Health Technologists and Technicians, All Other	434	519	85	19.6%	9	3	12
29-9000	Other Healthcare Practitioners and Technical Occupations	2,904	3,451	547	18.8%	55	55	110
29-9011	Occupational Health and Safety Specialists	771	812	41	5.3%	4	15	19
29-9012	Occupational Health and Safety Technicians	204	219	15	7.4%	2	4	6
29-9091	Athletic Trainers	189	235	46	24.3%	5	4	9
29-9099	Healthcare Practitioners and Technical Workers, All Other	1,740	2,185	445	25.6%	45	33	78
<b>31-0000</b>	<b>Healthcare Support Occupations</b>	<b>64,562</b>	<b>85,986</b>	<b>21,424</b>	<b>33.2%</b>	<b>2,142</b>	<b>700</b>	<b>2,842</b>
31-1000	Nursing, Psychiatric, and Home Health Aides	37,678	49,849	12,171	32.3%	1,217	337	1,554
31-1011	Home Health Aides	12,707	18,829	6,122	48.2%	612	114	726
31-1012	Nursing Aides, Orderlies, and Attendants	24,426	30,310	5,884	24.1%	588	219	807
31-1013	Psychiatric Aides	545	710	165	30.3%	17	5	22
31-2000	Occupational and Physical Therapist Assistants and Aides	1,514	1,968	454	30.0%	45	20	65
31-2011	Occupational Therapist Assistants	165	197	32	19.4%	3	3	6
31-2012	Occupational Therapist Aides	72	90	18	25.0%	2	1	3
31-2021	Physical Therapist Assistants	500	687	187	37.4%	19	6	25
31-2022	Physical Therapist Aides	777	994	217	27.9%	22	10	32
31-9000	Other Healthcare Support Occupations	25,370	34,169	8,799	34.7%	880	343	1,223

Standard Occupation Classification (SOC) <sup>1</sup>		Employment		10 Year Change		Average Annual Openings		
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31-9011	Massage Therapists	2,752	3,112	360	13.1%	36	31	67
31-9091	Dental Assistants	6,306	9,313	3,007	47.7%	301	110	411
31-9092	Medical Assistants	9,796	13,916	4,120	42.1%	412	122	534
31-9093	Medical Equipment Preparers	445	561	116	26.1%	12	6	18
31-9094	Medical Transcriptionists	1,868	2,105	237	12.7%	24	23	47
31-9095	Pharmacy Aides	486	514	28	5.8%	3	6	9
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	995	1,376	381	38.3%	38	12	50
31-9099	Healthcare Support Workers, All Other	2,722	3,272	550	20.2%	55	34	89
<b>33-0000</b>	<b>Protective Service Occupations</b>	<b>57,156</b>	<b>65,746</b>	<b>8,590</b>	<b>15.0%</b>	<b>861</b>	<b>1,533</b>	<b>2,394</b>
33-1000	First-Line Supervisors/Managers, Protective Service Workers	6,152	6,854	702	11.4%	70	179	249
33-1011	First-Line Supervisors/Managers of Correctional Officers	1,247	1,378	131	10.5%	13	34	47
33-1012	First-Line Supervisors/Managers of Police and Detectives	2,479	2,733	254	10.2%	25	78	103
33-2000	Fire Fighting and Prevention Workers	5,837	6,644	807	13.8%	81	210	291
33-2011	Fire Fighters	5,651	6,437	786	13.9%	79	206	285
33-3000	Law Enforcement Workers	26,261	30,225	3,964	15.1%	397	641	1,038
33-3011	Bailiffs	500	558	58	11.6%	6	11	17
33-3012	Correctional Officers and Jailers	9,677	11,058	1,381	14.3%	138	221	359
33-3021	Detectives and Criminal Investigators	4,413	5,493	1,080	24.5%	108	97	205
33-3041	Parking Enforcement Workers	100	131	31	31.0%	3	3	6
33-3051	Police and Sheriff's Patrol Officers	11,202	12,607	1,405	12.5%	141	300	441
33-9000	Other Protective Service Workers	18,906	22,023	3,117	16.5%	313	503	816
33-9011	Animal Control Workers	387	545	158	40.8%	16	8	24
33-9021	Private Detectives and Investigators	653	798	145	22.2%	15	13	28
33-9031	Gaming Surveillance Officers and Gaming Investigators	1,102	1,230	128	11.6%	13	22	35
33-9032	Security Guards	13,577	15,952	2,375	17.5%	238	276	514
33-9091	Crossing Guards	1,133	1,222	89	7.9%	9	33	42
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective	888	876	-12	-1.4%	0	66	66
33-9099	Protective Service Workers, All Other	1,166	1,400	234	20.1%	23	86	109
<b>35-0000</b>	<b>Food Preparation and Serving Related Occupations</b>	<b>251,578</b>	<b>293,013</b>	<b>41,435</b>	<b>16.5%</b>	<b>4,144</b>	<b>8,964</b>	<b>13,108</b>
35-1000	Supervisors, Food Preparation and Serving Workers	19,803	22,619	2,816	14.2%	282	164	446
35-1011	Chefs and Head Cooks	2,823	3,083	260	9.2%	26	36	62
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Workers	16,980	19,536	2,556	15.1%	256	128	384
35-2000	Cooks and Food Preparation Workers	67,348	77,612	10,264	15.2%	1,026	1,985	3,011
35-2011	Cooks, Fast Food	18,867	21,126	2,259	12.0%	226	511	737
35-2012	Cooks, Institution and Cafeteria	5,444	6,210	766	14.1%	77	148	225
35-2014	Cooks, Restaurant	17,088	19,856	2,768	16.2%	277	463	740
35-2015	Cooks, Short Order	4,404	4,705	301	6.8%	30	119	149
35-2019	Cooks, All Other	321	337	16	5.0%	2	9	11

Standard Occupation Classification (SOC) <sup>1</sup>		Employment		10 Year Change		Average Annual Openings		
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35-2021	Food Preparation Workers	21,213	25,363	4,150	19.6%	415	736	1,151
35-3000	Food and Beverage Serving Workers	123,154	145,321	22,167	18.0%	2,217	4,755	6,972
35-3011	Bartenders	8,962	9,795	833	9.3%	83	326	409
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	50,545	62,481	11,936	23.6%	1,194	959	2,153
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee	10,983	12,564	1,581	14.4%	158	762	920
35-3031	Waiters and Waitresses	48,743	56,158	7,415	15.2%	742	2,648	3,390
35-3041	Food Servers, Nonrestaurant	3,921	4,323	402	10.3%	40	60	100
35-9000	Other Food Preparation and Serving Related Workers	41,273	47,461	6,188	15.0%	619	2,060	2,679
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	12,947	14,876	1,929	14.9%	193	542	735
35-9021	Dishwashers	15,113	17,317	2,204	14.6%	220	617	837
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	13,111	15,148	2,037	15.5%	204	896	1,100
35-9099	Food Preparation and Serving Related Workers, All Other	102	120	18	17.6%	2	5	7
<b>37-0000</b>	<b>Building and Grounds Cleaning and Maintenance Occupations</b>	<b>117,542</b>	<b>145,551</b>	<b>28,009</b>	<b>23.8%</b>	<b>2,801</b>	<b>2,002</b>	<b>4,803</b>
37-1000	Supervisors, Building and Grounds Cleaning and Maintenance Workers	14,379	17,595	3,216	22.4%	322	156	478
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	7,367	8,776	1,409	19.1%	141	109	250
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn	7,012	8,819	1,807	25.8%	181	48	229
37-2000	Building Cleaning and Pest Control Workers	80,734	101,877	21,143	26.2%	2,114	1,550	3,664
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	51,764	67,261	15,497	29.9%	1,550	991	2,541
37-2012	Maids and Housekeeping Cleaners	26,501	31,345	4,844	18.3%	484	499	983
37-3000	Grounds Maintenance Workers	22,429	26,079	3,650	16.3%	365	296	661
37-3011	Landscaping and Groundskeeping Workers	21,561	25,095	3,534	16.4%	353	285	638
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	377	429	52	13.8%	5	5	10
<b>39-0000</b>	<b>Personal Care and Service Occupations</b>	<b>85,448</b>	<b>102,611</b>	<b>17,163</b>	<b>20.1%</b>	<b>1,812</b>	<b>1,950</b>	<b>3,762</b>
39-1000	Supervisors, Personal Care and Service Workers	8,564	9,665	1,101	12.9%	110	171	281
39-1011	Gaming Supervisors	2,622	3,032	410	15.6%	41	49	90
39-1012	Slot Key Persons	2,298	2,512	214	9.3%	21	43	64
39-1021	First-Line Supervisors/Managers of Personal Service Workers	3,644	4,121	477	13.1%	48	79	127
39-2000	Animal Care and Service Workers	3,657	4,287	630	17.2%	63	59	122
39-2011	Animal Trainers	273	362	89	32.6%	9	5	14
39-2021	Nonfarm Animal Caretakers	3,384	3,925	541	16.0%	54	55	109
39-3000	Entertainment Attendants and Related Workers	13,474	16,637	3,163	23.5%	316	542	858
39-3011	Gaming Dealers	3,423	4,186	763	22.3%	76	69	145

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39-3012	Gaming and Sports Book Writers and Runners	1,045	1,277	232	22.2%	23	21	44
39-3019	Gaming Service Workers, All Other	862	960	98	11.4%	10	17	27
39-3031	Ushers, Lobby Attendants, and Ticket Takers	1,636	2,136	500	30.6%	50	115	165
39-3091	Amusement and Recreation Attendants	4,981	5,995	1,014	20.4%	101	246	347
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	539	593	54	10.0%	5	27	32
39-3099	Entertainment Attendants and Related Workers, All Other	825	1,320	495	60.0%	50	41	91
39-4000	Funeral Service Workers	314	360	46	14.6%	5	8	13
39-4021	Funeral Attendants	269	309	40	14.9%	4	6	10
39-5000	Personal Appearance Workers	14,289	18,025	3,736	26.1%	374	173	547
39-5012	Hairdressers, Hairstylists, and Cosmetologists	9,779	12,065	2,286	23.4%	229	117	346
39-5092	Manicurists and Pedicurists	1,881	2,668	787	41.8%	79	20	99
39-5094	Skin Care Specialists	1,088	1,501	413	38.0%	41	11	52
39-6000	Transportation, Tourism, and Lodging Attendants	8,789	8,283	-506	-5.8%	28	178	206
39-6011	Baggage Porters and Bellhops	1,432	1,312	-120	-8.4%	0	18	18
39-6012	Concierges	419	438	19	4.5%	2	5	7
39-6021	Tour Guides and Escorts	1,148	1,298	150	13.1%	15	46	61
39-6032	Transportation Attendants, Except Flight Attendants and	253	297	44	17.4%	4	4	8
39-9000	Other Personal Care and Service Workers	36,361	45,354	8,993	24.7%	917	819	1,736
39-9011	Child Care Workers	14,606	17,438	2,832	19.4%	283	420	703
39-9021	Personal and Home Care Aides	10,856	16,260	5,404	49.8%	540	184	724
39-9031	Fitness Trainers and Aerobics Instructors	1,524	1,695	171	11.2%	17	29	46
39-9032	Recreation Workers	7,247	7,930	683	9.4%	68	136	204
39-9041	Residential Advisors	779	854	75	9.6%	8	22	30
39-9099	Personal Care and Service Workers, All Other	1,349	1,177	-172	-12.8%	0	29	29
<b>41-0000</b>	<b>Sales and Related Occupations</b>	<b>305,472</b>	<b>356,948</b>	<b>51,476</b>	<b>16.9%</b>	<b>5,201</b>	<b>9,255</b>	<b>14,456</b>
41-1000	Supervisors, Sales Workers	43,522	50,427	6,905	15.9%	691	849	1,540
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	33,799	40,003	6,204	18.4%	620	709	1,329
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	9,723	10,424	701	7.2%	70	140	210
41-2000	Retail Sales Workers	167,545	199,425	31,880	19.0%	3,188	6,316	9,504
41-2011	Cashiers	68,896	76,174	7,278	10.6%	728	3,276	4,004
41-2012	Gaming Change Persons and Booth Cashiers	1,254	1,260	6	0.5%	1	60	61
41-2021	Counter and Rental Clerks	9,514	11,417	1,903	20.0%	190	363	553
41-2022	Parts Salespersons	4,515	4,641	126	2.8%	13	51	64
41-2031	Retail Salespersons	83,366	105,933	22,567	27.1%	2,257	2,567	4,824
41-3000	Sales Representatives, Services	23,884	27,537	3,653	15.3%	365	525	890
41-3011	Advertising Sales Agents	2,731	3,467	736	26.9%	74	48	122
41-3021	Insurance Sales Agents	7,541	8,706	1,165	15.4%	117	164	281

Standard Occupation Classification (SOC) <sup>1</sup>		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2006 Estimated	2016 Projected	Number	Percent	Due to Growth	Due to Separations	Total <sup>2</sup>
41-3031	Securities, Commodities, and Financial Services Sales Agents	7,236	7,726	490	6.8%	49	185	234
41-3041	Travel Agents	1,357	1,563	206	15.2%	21	10	31
41-3099	Sales Representatives, Services, All Other	5,019	6,075	1,056	21.0%	106	118	224
41-4000	Sales Representatives, Wholesale and Manufacturing	39,079	46,282	7,203	18.4%	720	862	1,582
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	11,060	12,640	1,580	14.3%	158	244	402
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	28,019	33,642	5,623	20.1%	562	618	1,180
41-9000	Other Sales and Related Workers	31,442	33,277	1,835	5.8%	237	702	939
41-9011	Demonstrators and Product Promoters	2,094	2,630	536	25.6%	54	60	114
41-9022	Real Estate Sales Agents	9,169	9,847	678	7.4%	68	147	215
41-9031	Sales Engineers	873	874	1	0.1%	0	22	22
41-9041	Telemarketers	9,505	8,968	-537	-5.6%	0	334	334
41-9099	Sales and Related Workers, All Other	2,234	2,501	267	12.0%	27	20	47
<b>43-0000</b>	<b>Office and Administrative Support Occupations</b>	<b>531,982</b>	<b>597,798</b>	<b>65,816</b>	<b>12.4%</b>	<b>7,397</b>	<b>11,517</b>	<b>18,914</b>
43-1000	Supervisors, Office and Administrative Support Workers	30,432	32,954	2,522	8.3%	252	628	880
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	30,432	32,954	2,522	8.3%	252	628	880
43-2000	Communications Equipment Operators	5,096	4,732	-364	-7.1%	0	103	103
43-2011	Switchboard Operators, Including Answering Service	3,959	3,738	-221	-5.6%	0	83	83
43-3000	Financial Clerks	82,552	95,180	12,628	15.3%	1,264	1,595	2,859
43-3011	Bill and Account Collectors	17,659	20,479	2,820	16.0%	282	267	549
43-3021	Billing and Posting Clerks and Machine Operators	10,286	11,158	872	8.5%	87	131	218
43-3031	Bookkeeping, Accounting, and Auditing Clerks	36,758	43,533	6,775	18.4%	678	575	1,253
43-3041	Gaming Cage Workers	816	808	-8	-1.0%	0	22	22
43-3051	Payroll and Timekeeping Clerks	6,355	7,246	891	14.0%	89	161	250
43-3061	Procurement Clerks	1,181	1,231	50	4.2%	5	24	29
43-3071	Tellers	9,497	10,725	1,228	12.9%	123	415	538
43-4000	Information and Record Clerks	158,372	183,351	24,979	15.8%	2,961	4,050	7,011
43-4011	Brokerage Clerks	809	785	-24	-3.0%	0	26	26
43-4031	Court, Municipal, and License Clerks	2,366	2,520	154	6.5%	15	54	69
43-4051	Customer Service Representatives	70,730	91,814	21,084	29.8%	2,108	1,970	4,078
43-4061	Eligibility Interviewers, Government Programs	2,013	2,021	8	0.4%	1	35	36
43-4071	File Clerks	6,612	4,060	-2,552	-38.6%	0	175	175
43-4081	Hotel, Motel, and Resort Desk Clerks	4,430	4,808	378	8.5%	38	180	218
43-4111	Interviewers, Except Eligibility and Loan	4,967	5,941	974	19.6%	97	131	228
43-4121	Library Assistants, Clerical	803	919	116	14.4%	12	25	37
43-4131	Loan Interviewers and Clerks	8,073	8,246	173	2.1%	17	140	157



Standard Occupation Classification (SOC) <sup>1</sup>		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2006 Estimated	2016 Projected	Number	Percent	Due to Growth	Due to Separations	Total <sup>2</sup>
43-4141	New Accounts Clerks	890	760	-130	-14.6%	0	26	26
43-4151	Order Clerks	5,428	4,451	-977	-18.0%	0	114	114
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	5,386	6,987	1,601	29.7%	160	40	200
43-4171	Receptionists and Information Clerks	23,019	28,040	5,021	21.8%	502	563	1,065
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	6,967	6,520	-447	-6.4%	0	153	153
43-4199	Information and Record Clerks, All Other	4,546	4,348	-198	-4.4%	0	73	73
43-5000	Material Recording, Scheduling, Dispatching, and Distributing	88,578	95,013	6,435	7.3%	683	2,152	2,835
43-5011	Cargo and Freight Agents	1,227	1,252	25	2.0%	3	33	36
43-5021	Couriers and Messengers	2,096	2,176	80	3.8%	8	57	65
43-5031	Police, Fire, and Ambulance Dispatchers	1,566	1,761	195	12.5%	20	40	60
43-5032	Dispatchers, Except Police, Fire, and Ambulance	3,805	3,980	175	4.6%	18	96	114
43-5041	Meter Readers, Utilities	1,532	1,412	-120	-7.8%	0	49	49
43-5051	Postal Service Clerks	1,160	1,217	57	4.9%	6	26	32
43-5052	Postal Service Mail Carriers	5,389	5,648	259	4.8%	26	158	184
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	3,114	2,959	-155	-5.0%	0	33	33
43-5061	Production, Planning, and Expediting Clerks	6,159	6,682	523	8.5%	52	168	220
43-5071	Shipping, Receiving, and Traffic Clerks	26,275	30,151	3,876	14.8%	388	630	1,018
43-5081	Stock Clerks and Order Fillers	35,152	36,793	1,641	4.7%	164	834	998
43-5111	Weighers, Measurers, Checkers, and Samplers,	1,103	982	-121	-11.0%	0	29	29
43-6000	Secretaries and Administrative Assistants	74,628	85,437	10,809	14.5%	1,081	1,188	2,269
43-6011	Executive Secretaries and Administrative Assistants	36,627	43,158	6,531	17.8%	653	583	1,236
43-6012	Legal Secretaries	5,339	6,568	1,229	23.0%	123	85	208
43-6013	Medical Secretaries	6,614	8,198	1,584	23.9%	158	105	263
43-6014	Secretaries, Except Legal, Medical, and Executive	26,048	27,513	1,465	5.6%	147	415	562
43-9000	Other Office and Administrative Support Workers	92,324	101,131	8,807	9.5%	1,156	1,801	2,957
43-9011	Computer Operators	4,146	3,287	-859	-20.7%	0	66	66
43-9021	Data Entry Keyers	7,869	7,411	-458	-5.8%	0	193	193
43-9022	Word Processors and Typists	4,689	4,214	-475	-10.1%	0	89	89
43-9031	Desktop Publishers	262	251	-11	-4.2%	0	5	5
43-9041	Insurance Claims and Policy Processing Clerks	2,090	2,168	78	3.7%	8	25	33
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	4,348	3,794	-554	-12.7%	0	115	115
43-9061	Office Clerks, General	63,101	74,207	11,106	17.6%	1,111	1,158	2,269
43-9071	Office Machine Operators, Except Computer	1,761	1,663	-98	-5.6%	0	58	58
43-9081	Proofreaders and Copy Markers	1,127	1,496	369	32.7%	37	23	60
43-9111	Statistical Assistants	186	191	5	2.7%	1	8	9

Standard Occupation Classification (SOC) <sup>1</sup>		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2006 Estimated	2016 Projected	Number	Percent	Due to Growth	Due to Separations	Total <sup>2</sup>
43-9199	Office and Administrative Support Workers, All Other	2,745	2,449	-296	-10.8%	0	61	61
<b>45-0000</b>	<b>Farming, Fishing, and Forestry Occupations</b>	<b>24,112</b>	<b>24,168</b>	<b>56</b>	<b>0.2%</b>	<b>18</b>	<b>584</b>	<b>602</b>
45-1000	Supervisors, Farming, Fishing, and Forestry Workers	1,701	1,743	42	2.5%	4	32	36
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	914	923	9	1.0%	1	17	18
45-1012	Farm Labor Contractors	787	820	33	4.2%	3	15	18
45-2000	Agricultural Workers	22,115	22,100	-15	-0.1%	9	545	554
45-2011	Agricultural Inspectors	300	305	5	1.7%	1	8	9
45-2041	Graders and Sorters, Agricultural Products	775	724	-51	-6.6%	0	11	11
45-2091	Agricultural Equipment Operators	1,676	1,710	34	2.0%	3	42	45
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	17,798	17,744	-54	-0.3%	0	445	445
45-2093	Farmworkers, Farm and Ranch Animals	1,286	1,323	37	2.9%	4	32	36
45-2099	Agricultural Workers, All Other	264	276	12	4.5%	1	7	8
45-4000	Forest, Conservation, and Logging Workers	296	325	29	9.8%	4	7	11
45-4021	Fallers	88	109	21	23.9%	2	2	4
<b>47-0000</b>	<b>Construction and Extraction Occupations</b>	<b>259,920</b>	<b>268,053</b>	<b>8,133</b>	<b>3.1%</b>	<b>860</b>	<b>4,344</b>	<b>5,204</b>
47-1000	Supervisors, Construction and Extraction Workers	14,999	15,540	541	3.6%	54	210	264
47-1011	First-Line Supervisors/Managers of Construction Trades and	14,999	15,540	541	3.6%	54	210	264
47-2000	Construction Trades Workers	223,109	229,750	6,641	3.0%	699	3,611	4,310
47-2011	Boilermakers	234	275	41	17.5%	4	9	13
47-2021	Brickmasons and Blockmasons	8,636	8,571	-65	-0.8%	0	180	180
47-2022	Stonemasons	1,997	2,042	45	2.3%	5	42	47
47-2031	Carpenters	75,437	76,235	798	1.1%	80	1,021	1,101
47-2041	Carpet Installers	2,480	2,725	245	9.9%	25	36	61
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	1,147	1,144	-3	-0.3%	0	17	17
47-2044	Tile and Marble Setters	2,767	3,072	305	11.0%	31	40	71
47-2051	Cement Masons and Concrete Finishers	10,082	10,395	313	3.1%	31	292	323
47-2053	Terrazzo Workers and Finishers	144	145	1	0.7%	0	4	4
47-2061	Construction Laborers	38,390	40,080	1,690	4.4%	169	289	458
47-2071	Paving, Surfacing, and Tamping Equipment Operators	1,888	1,985	97	5.1%	10	38	48
47-2073	Operating Engineers and Other Construction Equipment Operators	14,438	15,565	1,127	7.8%	113	280	393
47-2081	Drywall and Ceiling Tile Installers	7,255	7,174	-81	-1.1%	0	100	100
47-2082	Tapers	4,402	4,336	-66	-1.5%	0	61	61
47-2111	Electricians	9,873	10,650	777	7.9%	78	254	332
47-2121	Glaziers	3,786	3,941	155	4.1%	16	64	80
47-2131	Insulation Workers, Floor, Ceiling, and Wall	348	350	2	0.6%	0	8	8
47-2132	Insulation Workers, Mechanical	156	156	0	0.0%	0	4	4

Standard Occupation Classification (SOC) <sup>1</sup>		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2006 Estimated	2016 Projected	Number	Percent	Due to Growth	Due to Separations	Total <sup>2</sup>
47-2141	Painters, Construction and Maintenance	9,773	10,278	505	5.2%	51	174	225
47-2151	Pipelayers	2,739	2,938	199	7.3%	20	57	77
47-2152	Plumbers, Pipefitters, and Steamfitters	8,209	8,587	378	4.6%	38	169	207
47-2161	Plasterers and Stucco Masons	4,746	4,779	33	0.7%	3	111	114
47-2171	Reinforcing Iron and Rebar Workers	2,624	2,707	83	3.2%	8	66	74
47-2181	Roofers	4,285	4,390	105	2.5%	11	98	109
47-2211	Sheet Metal Workers	3,547	3,623	76	2.1%	8	86	94
47-2221	Structural Iron and Steel Workers	3,273	3,168	-105	-3.2%	0	106	106
47-3000	Helpers, Construction Trades	12,078	12,375	297	2.5%	39	306	345
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	1,227	1,269	42	3.4%	4	31	35
47-3012	Helpers--Carpenters	5,275	5,435	160	3.0%	16	134	150
47-3013	Helpers--Electricians	1,820	1,894	74	4.1%	7	46	53
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	819	748	-71	-8.7%	0	21	21
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	1,245	1,285	40	3.2%	4	32	36
47-3016	Helpers--Roofers	429	408	-21	-4.9%	0	11	11
47-3019	Helpers, Construction Trades, All Other	1,263	1,336	73	5.8%	7	32	39
47-4000	Other Construction and Related Workers	8,376	8,862	486	5.8%	51	172	223
47-4011	Construction and Building Inspectors	1,953	2,277	324	16.6%	32	36	68
47-4021	Elevator Installers and Repairers	137	141	4	2.9%	0	4	4
47-4031	Fence Erectors	2,142	2,123	-19	-0.9%	0	43	43
47-4041	Hazardous Materials Removal Workers	806	834	28	3.5%	3	17	20
47-4051	Highway Maintenance Workers	1,562	1,659	97	6.2%	10	29	39
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	431	440	9	2.1%	1	9	10
47-4099	Construction and Related Workers, All Other	996	1,021	25	2.5%	3	26	29
47-5000	Extraction Workers	1,358	1,526	168	12.4%	18	46	64
47-5021	Earth Drillers, Except Oil and Gas	377	442	65	17.2%	7	12	19
47-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	54	62	8	14.8%	1	2	3
47-5041	Continuous Mining Machine Operators	347	394	47	13.5%	5	13	18
47-5042	Mine Cutting and Channeling Machine Operators	195	217	22	11.3%	2	7	9
47-5081	Helpers--Extraction Workers	290	310	20	6.9%	2	9	11
<b>49-0000</b>	<b>Installation, Maintenance, and Repair Occupations</b>	<b>105,420</b>	<b>118,617</b>	<b>13,197</b>	<b>12.5%</b>	<b>1,324</b>	<b>1,592</b>	<b>2,916</b>
49-1000	Supervisors of Installation, Maintenance, and Repair Workers	7,424	8,173	749	10.1%	75	174	249
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and	7,424	8,173	749	10.1%	75	174	249
49-2000	Electrical and Electronic Equipment Mechanics, Installers, and	11,893	12,476	583	4.9%	61	234	295

Standard Occupation Classification (SOC) <sup>1</sup>		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2006 Estimated	2016 Projected	Number	Percent	Due to Growth	Due to Separations	Total <sup>2</sup>
49-2011	Computer, Automated Teller, and Office Machine Repairers	2,661	2,735	74	2.8%	7	31	38
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	3,629	3,762	133	3.7%	13	89	102
49-2091	Avionics Technicians	461	561	100	21.7%	10	5	15
49-2092	Electric Motor, Power Tool, and Related Repairers	512	492	-20	-3.9%	0	19	19
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	182	197	15	8.2%	2	4	6
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	1,301	1,518	217	16.7%	22	44	66
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	149	152	3	2.0%	0	5	5
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	242	258	16	6.6%	2	8	10
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	1,904	1,931	27	1.4%	3	18	21
49-2098	Security and Fire Alarm Systems Installers	836	857	21	2.5%	2	11	13
49-3000	Vehicle and Mobile Equipment Mechanics, Installers	34,564	39,180	4,616	13.4%	462	685	1,147
49-3011	Aircraft Mechanics and Service Technicians	2,833	2,892	59	2.1%	6	29	35
49-3021	Automotive Body and Related Repairers	2,810	2,895	85	3.0%	9	67	76
49-3022	Automotive Glass Installers and Repairers	311	325	14	4.5%	1	11	12
49-3023	Automotive Service Technicians and Mechanics	15,547	17,495	1,948	12.5%	195	312	507
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	4,554	5,259	705	15.5%	71	99	170
49-3041	Farm Equipment Mechanics	614	647	33	5.4%	3	12	15
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	3,574	4,269	695	19.4%	70	70	140
49-3051	Motorboat Mechanics	306	341	35	11.4%	4	6	10
49-3052	Motorcycle Mechanics	599	672	73	12.2%	7	12	19
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	264	318	54	20.5%	5	5	10
49-3091	Bicycle Repairers	349	438	89	25.5%	9	7	16
49-3093	Tire Repairers and Changers	2,406	3,089	683	28.4%	68	48	116
49-9000	Other Installation, Maintenance, and Repair Occupations	51,539	58,788	7,249	14.1%	727	498	1,225
49-9011	Mechanical Door Repairers	206	266	60	29.1%	6	4	10
49-9012	Control and Valve Installers and Repairers, Except Mechanical	744	803	59	7.9%	6	13	19
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and	4,811	5,133	322	6.7%	32	84	116
49-9031	Home Appliance Repairers	1,157	1,231	74	6.4%	7	26	33
49-9041	Industrial Machinery Mechanics	3,019	3,597	578	19.1%	58	50	108
49-9042	Maintenance and Repair Workers, General	27,515	31,579	4,064	14.8%	406	68	474
49-9043	Maintenance Workers, Machinery	1,167	1,232	65	5.6%	7	19	26

Standard Occupation Classification (SOC) <sup>1</sup>		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2006 Estimated	2016 Projected	Number	Percent	Due to Growth	Due to Separations	Total <sup>2</sup>
49-9044	Millwrights	453	489	36	7.9%	4	6	10
49-9051	Electrical Power-Line Installers and Repairers	969	1,112	143	14.8%	14	31	45
49-9052	Telecommunications Line Installers and Repairers	680	795	115	16.9%	12	18	30
49-9061	Camera and Photographic Equipment Repairers	66	70	4	6.1%	0	2	2
49-9062	Medical Equipment Repairers	561	824	263	46.9%	26	16	42
49-9064	Watch Repairers	342	335	-7	-2.0%	0	10	10
49-9069	Precision Instrument and Equipment Repairers, All Other	527	617	90	17.1%	9	15	24
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	743	809	66	8.9%	7	21	28
49-9094	Locksmiths and Safe Repairers	133	163	30	22.6%	3	3	6
49-9098	Helpers--Installation, Maintenance, and Repair Workers	3,161	3,541	380	12.0%	38	74	112
49-9099	Installation, Maintenance, and Repair Workers, All Other	4,862	5,695	833	17.1%	83	31	114
<b>51-0000</b>	<b>Production Occupations</b>	<b>139,474</b>	<b>142,624</b>	<b>3,150</b>	<b>2.3%</b>	<b>926</b>	<b>2,820</b>	<b>3,746</b>
51-1000	Supervisors, Production Workers	8,819	9,229	410	4.6%	41	148	189
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	8,819	9,229	410	4.6%	41	148	189
51-2000	Assemblers and Fabricators	32,744	32,089	-655	-2.0%	128	647	775
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems	1,161	1,442	281	24.2%	28	24	52
51-2021	Coil Winders, Tapers, and Finishers	365	258	-107	-29.3%	0	6	6
51-2022	Electrical and Electronic Equipment Assemblers	5,423	3,676	-1,747	-32.2%	0	92	92
51-2023	Electromechanical Equipment Assemblers	1,233	1,150	-83	-6.7%	0	21	21
51-2041	Structural Metal Fabricators and Fitters	2,183	2,229	46	2.1%	5	38	43
51-2091	Fiberglass Laminators and Fabricators	465	510	45	9.7%	5	10	15
51-2092	Team Assemblers	18,447	19,241	794	4.3%	79	383	462
51-2099	Assemblers and Fabricators, All Other	3,248	3,327	79	2.4%	8	68	76
51-3000	Food Processing Workers	10,520	12,370	1,850	17.6%	187	284	471
51-3011	Bakers	3,862	4,604	742	19.2%	74	82	156
51-3021	Butchers and Meat Cutters	2,373	2,593	220	9.3%	22	75	97
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	1,197	1,306	109	9.1%	11	38	49
51-3092	Food Batchmakers	2,118	2,783	665	31.4%	67	54	121
51-3093	Food Cooking Machine Operators and Tenders	530	636	106	20.0%	11	21	32
51-4000	Metal Workers and Plastic Workers	21,628	22,330	702	3.2%	135	424	559
51-4011	Computer-Controlled Machine Tool Operators, Metal and	885	995	110	12.4%	11	11	22
51-4012	Numerical Tool and Process Control Programmers	245	255	10	4.1%	1	3	4
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	546	512	-34	-6.2%	0	15	15
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	245	189	-56	-22.9%	0	8	8



Standard Occupation Classification (SOC) <sup>1</sup>		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2006 Estimated	2016 Projected	Number	Percent	Due to Growth	Due to Separations	Total <sup>2</sup>
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	379	375	-4	-1.1%	0	8	8
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and	2,880	2,681	-199	-6.9%	0	69	69
51-4032	Drilling and Boring Machine Tool Setters, Operators, and	445	406	-39	-8.8%	0	9	9
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool	688	703	15	2.2%	2	7	9
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	595	557	-38	-6.4%	0	12	12
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	287	249	-38	-13.2%	0	3	3
51-4041	Machinists	3,757	4,132	375	10.0%	38	58	96
51-4051	Metal-Refining Furnace Operators and Tenders	242	243	1	0.4%	0	4	4
51-4052	Pourers and Casters, Metal	117	86	-31	-26.5%	0	2	2
51-4061	Model Makers, Metal and Plastic	69	67	-2	-2.9%	0	2	2
51-4062	Patternmakers, Metal and Plastic	68	61	-7	-10.3%	0	2	2
51-4071	Foundry Mold and Coremakers	256	200	-56	-21.9%	0	6	6
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	753	695	-58	-7.7%	0	18	18
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	557	616	59	10.6%	6	11	17
51-4111	Tool and Die Makers	437	457	20	4.6%	2	6	8
51-4121	Welders, Cutters, Solderers, and Brazers	6,561	7,261	700	10.7%	70	139	209
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	603	661	58	9.6%	6	13	19
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	144	127	-17	-11.8%	0	3	3
51-4193	Plating and Coating Machine Setters, Operators, and Tenders,	331	334	3	0.9%	0	10	10
51-4194	Tool Grinders, Filers, and Sharpeners	320	317	-3	-0.9%	0	6	6
51-4199	Metal Workers and Plastic Workers, All Other	172	112	-60	-34.9%	0	3	3
51-5000	Printing Workers	4,271	3,661	-610	-14.3%	0	73	73
51-5011	Bindery Workers	711	506	-205	-28.8%	0	10	10
51-5022	Prepress Technicians and Workers	948	675	-273	-28.8%	0	15	15
51-5023	Printing Machine Operators	1,854	1,785	-69	-3.7%	0	41	41
51-6000	Textile, Apparel, and Furnishings Workers	12,387	13,534	1,147	9.3%	151	222	373
51-6011	Laundry and Dry-Cleaning Workers	5,543	6,341	798	14.4%	80	124	204
51-6021	Pressers, Textile, Garment, and Related Materials	1,522	1,519	-3	-0.2%	0	11	11
51-6031	Sewing Machine Operators	1,869	2,018	149	8.0%	15	18	33
51-6041	Shoe and Leather Workers and Repairers	324	431	107	33.0%	11	7	18
51-6052	Tailors, Dressmakers, and Custom Sewers	579	664	85	14.7%	9	10	19
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	50	40	-10	-20.0%	0	2	2

Standard Occupation Classification (SOC) <sup>1</sup>		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2006 Estimated	2016 Projected	Number	Percent	Due to Growth	Due to Separations	Total <sup>2</sup>
51-6092	Fabric and Apparel Patternmakers	142	151	9	6.3%	1	3	4
51-6093	Upholsterers	538	552	14	2.6%	1	8	9
51-6099	Textile, Apparel, and Furnishings Workers, All Other	1,198	1,540	342	28.5%	34	30	64
51-7000	Woodworkers	5,515	5,974	459	8.3%	49	137	186
51-7011	Cabinetmakers and Bench Carpenters	2,128	2,295	167	7.8%	17	63	80
51-7021	Furniture Finishers	689	715	26	3.8%	3	12	15
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	1,013	1,097	84	8.3%	8	20	28
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	1,426	1,626	200	14.0%	20	36	56
51-7099	Woodworkers, All Other	186	197	11	5.9%	1	4	5
51-8000	Plant and System Operators	2,797	3,221	424	15.2%	47	66	113
51-8012	Power Distributors and Dispatchers	90	95	5	5.6%	1	3	4
51-8013	Power Plant Operators	422	471	49	11.6%	5	15	20
51-8021	Stationary Engineers and Boiler Operators	484	577	93	19.2%	9	8	17
51-8031	Water and Liquid Waste Treatment Plant and System	1,109	1,361	252	22.7%	25	19	44
51-8091	Chemical Plant and System Operators	109	113	4	3.7%	0	3	3
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	198	155	-43	-21.7%	0	6	6
51-8099	Plant and System Operators, All Other	181	199	18	9.9%	2	5	7
51-9000	Other Production Occupations	40,793	40,216	-577	-1.4%	188	820	1,008
51-9011	Chemical Equipment Operators and Tenders	93	77	-16	-17.2%	0	2	2
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	811	987	176	21.7%	18	19	37
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	620	587	-33	-5.3%	0	10	10
51-9022	Grinding and Polishing Workers, Hand	735	726	-9	-1.2%	0	12	12
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	1,224	1,307	83	6.8%	8	20	28
51-9031	Cutters and Trimmers, Hand	219	222	3	1.4%	0	3	3
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	460	466	6	1.3%	1	7	8
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	949	1,072	123	13.0%	12	17	29
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	473	493	20	4.2%	2	13	15
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	7,054	6,957	-97	-1.4%	0	105	105
51-9071	Jewelers and Precious Stone and Metal Workers	544	543	-1	-0.2%	0	9	9
51-9081	Dental Laboratory Technicians	707	795	88	12.4%	9	13	22
51-9083	Ophthalmic Laboratory Technicians	1,096	1,457	361	32.9%	36	21	57
51-9111	Packaging and Filling Machine Operators and Tenders	3,843	4,034	191	5.0%	19	71	90

Standard Occupation Classification (SOC) <sup>1</sup>		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2006 Estimated	2016 Projected	Number	Percent	Due to Growth	Due to Separations	Total <sup>2</sup>
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	1,407	1,325	-82	-5.8%	0	28	28
51-9122	Painters, Transportation Equipment	1,011	1,058	47	4.6%	5	20	25
51-9123	Painting, Coating, and Decorating Workers	624	765	141	22.6%	14	12	26
51-9131	Photographic Process Workers	537	347	-190	-35.4%	0	19	19
51-9132	Photographic Processing Machine Operators	1,288	741	-547	-42.5%	0	45	45
51-9141	Semiconductor Processors	4,368	2,897	-1,471	-33.7%	0	74	74
51-9191	Cementing and Gluing Machine Operators and Tenders	202	202	0	0.0%	0	5	5
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	98	91	-7	-7.1%	0	3	3
51-9193	Cooling and Freezing Equipment Operators and Tenders	171	223	52	30.4%	5	4	9
51-9194	Etchers and Engravers	130	122	-8	-6.2%	0	2	2
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	1,443	1,577	134	9.3%	13	32	45
51-9196	Paper Goods Machine Setters, Operators, and Tenders	933	1,013	80	8.6%	8	23	31
51-9198	Helpers--Production Workers	7,501	7,788	287	3.8%	29	184	213
51-9199	Production Workers, All Other	2,030	2,092	62	3.1%	6	42	48
<b>53-0000</b>	<b>Transportation and Material Moving Occupations</b>	<b>177,670</b>	<b>196,244</b>	<b>18,574</b>	<b>10.5%</b>	<b>1,983</b>	<b>4,133</b>	<b>6,116</b>
53-1000	Supervisors, Transportation and Material Moving Workers	6,455	7,628	1,173	18.2%	117	132	249
53-1011	Aircraft Cargo Handling Supervisors	177	204	27	15.3%	3	4	7
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand	3,025	3,569	544	18.0%	54	62	116
53-1031	First-Line Supervisors/Managers of Transportation and Material-Moving Machine and Vehicle Operators	3,253	3,855	602	18.5%	60	66	126
53-2000	Air Transportation Workers	5,133	5,160	27	0.5%	39	149	188
53-2011	Airline Pilots, Copilots, and Flight Engineers	3,765	3,401	-364	-9.7%	0	110	110
53-2012	Commercial Pilots	814	1,087	273	33.5%	27	24	51
53-2021	Air Traffic Controllers	379	466	87	23.0%	9	10	19
53-2022	Airfield Operations Specialists	175	206	31	17.7%	3	5	8
53-3000	Motor Vehicle Operators	72,465	83,943	11,478	15.8%	1,159	1,218	2,377
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	229	315	86	37.6%	9	3	12
53-3021	Bus Drivers, Transit and Intercity	3,321	3,888	567	17.1%	57	44	101
53-3022	Bus Drivers, School	6,482	7,985	1,503	23.2%	150	85	235
53-3031	Driver/Sales Workers	8,720	8,611	-109	-1.3%	0	155	155
53-3032	Truck Drivers, Heavy and Tractor-Trailer	28,113	33,740	5,627	20.0%	563	499	1,062
53-3033	Truck Drivers, Light or Delivery Services	20,367	23,340	2,973	14.6%	297	361	658
53-3041	Taxi Drivers and Chauffeurs	3,643	4,220	577	15.8%	58	47	105
53-3099	Motor Vehicle Operators, All Other	1,590	1,844	254	16.0%	25	25	50
53-6000	Other Transportation Workers	6,532	7,241	709	10.9%	71	203	274

Standard Occupation Classification (SOC) <sup>1</sup>		Employment		10 Year Change		Average Annual Openings		
SOC Code	SOC Title	2006 Estimated	2016 Projected	Number	Percent	Due to Growth	Due to Separations	Total <sup>2</sup>
53-6021	Parking Lot Attendants	3,399	3,542	143	4.2%	14	93	107
53-6031	Service Station Attendants	1,670	1,914	244	14.6%	24	77	101
53-6051	Transportation Inspectors	428	510	82	19.2%	8	14	22
53-6099	Transportation Workers, All Other	890	1,115	225	25.3%	23	16	39
53-7000	Material Moving Workers	84,924	89,873	4,949	5.8%	569	2,357	2,926
53-7011	Conveyor Operators and Tenders	462	491	29	6.3%	3	8	11
53-7021	Crane and Tower Operators	494	510	16	3.2%	2	9	11
53-7032	Excavating and Loading Machine and Dragline Operators	2,548	2,648	100	3.9%	10	40	50
53-7051	Industrial Truck and Tractor Operators	6,648	7,383	735	11.1%	74	168	242
53-7061	Cleaners of Vehicles and Equipment	7,127	7,732	605	8.5%	61	272	333
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	50,269	53,958	3,689	7.3%	369	1,609	1,978
53-7063	Machine Feeders and Offbearers	986	891	-95	-9.6%	0	18	18
53-7064	Packers and Packagers, Hand	13,878	13,234	-644	-4.6%	0	169	169
53-7071	Gas Compressor and Gas Pumping Station Operators	59	62	3	5.1%	0	2	2
53-7081	Refuse and Recyclable Material Collectors	1,853	2,210	357	19.3%	36	50	86
53-7121	Tank Car, Truck, and Ship Loaders	227	329	102	44.9%	10	4	14
53-7199	Material Moving Workers, All Other	243	267	24	9.9%	2	4	6

<sup>1</sup> For more information on the Standard Occupational Classification (SOC) system, go to: [www.bls.gov/soc/socguide.htm](http://www.bls.gov/soc/socguide.htm)

For Occupational Dictionary, see: [http://www.bls.gov/oes/current/oes\\_stru.htm](http://www.bls.gov/oes/current/oes_stru.htm)

<sup>2</sup> Total average annual openings are the sum of openings from growth plus openings from separations. Separations are vacancies caused by workers leaving the labor market or changing occupations. Thus an occupation that is not growing or is in decline could still have openings due to separations.

Some Occupations suppressed due to confidentiality or base employment less than 50.

Headings in bold font are the major occupational groups of the Standard Occupational Classification (SOC) system. Major occupational groups of the SOC are a composite of all individual occupations listed below the major group heading. Occupation codes ending in 000 (e.g. 11-1000, 11-2000, 11-3000, etc) are a summation of all the occupations listed below them.

The projections presented should be viewed as indicators of relative magnitude and probable direction rather than as forecasts of absolute occupational demand.

Furthermore, the occupational forecasts are only measures of expected employment and demand for labor and indicate little about future labor supply.

It is therefore recommended that these data be used with other sources of occupational information. [See Notes worksheet for additional information on methodology.](#)

Prepared by Arizona Dept of Commerce, Research Administration in cooperation with the U.S. Dept of Labor, Bureau of Labor Statistics, July 2008.

For more information on occupational projections, visit: <http://stats.bls.gov/emp/optd/home.htm>

## Methodology

Before using the data in this report, readers should understand this methodology and note its limitations. **The projections presented should be viewed as indicators of relative magnitude and probable direction rather than as forecasts of absolute occupational demand.**

Furthermore, the occupational forecasts are only measures of expected employment and demand for labor and indicate little about future labor supply. It is therefore recommended that these data be used with other sources of occupational information.

The total occupational employment of the forecast will be greater than the total nonfarm employment estimated by the Current Employment Statistics (CES) program and Occupational Employment Survey (OES) program for the following reasons. First, self employed, unpaid family workers, and agriculture workers are included in the projections, but not in CES and OES. Next, some industries are not included in the OES data because of low survey response rate and a base employment level that is too small to make any statistically significant estimates.

Employment projections provided in this publication were developed in cooperation with and using techniques based on those developed by the U.S Department of Labor's Bureau of Labor Statistics. This methodology is comprised of five basic steps:

- 1) Industry employment data is compiled from CES and unemployment insurance tax records.
- 2) A fraction of the industry employment is assumed to be self employed or unpaid family workers. The fraction is determined from national surveys and is added to the state's industry employment data.
- 3) Staffing patterns from state and national data are used to divide each industry's total employment into the different occupations for that industry.
- 4) Each industry's total employment is calculated during the forecast period according to the short term industry projections for the same time period that were produced by DES Research Administration. The short term industry projections are available online at:  
<http://www.workforce.az.gov/?PAGEID=67&SUBID=174>
- 5) Total employment in any occupation is not only calculated by changes in the total industry employment, but also by changes in share of that occupation's employment in each industry. The change in the share of total industry employment of any occupation is known as the occupational change factor. When the occupational change factor is determined for each occupation in every industry, the occupational forecasts are finished.

To avoid the possible disclosure of confidential employer information, employment data have been suppressed if: less than three firms reported a single occupation; one firm reported more than 50 percent of the occupational estimate; or two firms combined reported more than 75 percent of the occupational estimate. In certain cases, releases may have been obtained from large employers to waive the confidentiality criteria.



Occupational Education and Training Requirements			
Standard Occupation Classification (SOC)*		Training Requirements	
Code	Occupation Title	Code	Training Description
11-1011	Chief Executives	4	Bachelor's or higher degree, plus work experience
11-1021	General and Operations Managers	4	Bachelor's or higher degree, plus work experience
11-1031	Legislators	4	Bachelor's or higher degree, plus work experience
11-2011	Advertising and Promotions Managers	4	Bachelor's or higher degree, plus work experience
11-2021	Marketing Managers	4	Bachelor's or higher degree, plus work experience
11-2022	Sales Managers	4	Bachelor's or higher degree, plus work experience
11-2031	Public Relations Managers	4	Bachelor's or higher degree, plus work experience
11-3011	Administrative Services Managers	4	Bachelor's or higher degree, plus work experience
11-3021	Computer and Information Systems Managers	4	Bachelor's or higher degree, plus work experience
11-3031	Financial Managers	4	Bachelor's or higher degree, plus work experience
11-3041	Compensation and Benefits Managers	4	Bachelor's or higher degree, plus work experience
11-3042	Training and Development Managers	4	Bachelor's or higher degree, plus work experience
11-3049	Human Resources Managers, All Other	4	Bachelor's or higher degree, plus work experience
11-3051	Industrial Production Managers	8	Work experience in a related occupation
11-3061	Purchasing Managers	4	Bachelor's or higher degree, plus work experience
11-3071	Transportation, Storage, and Distribution Managers	8	Work experience in a related occupation
11-9011	Farm, Ranch, and Other Agricultural Managers	4	Bachelor's or higher degree, plus work experience
11-9021	Construction Managers	5	Bachelor's degree
11-9031	Education Administrators, Preschool and Child Care Center/Program	4	Bachelor's or higher degree, plus work experience
11-9032	Education Administrators, Elementary and Secondary School	4	Bachelor's or higher degree, plus work experience
11-9033	Education Administrators, Postsecondary	4	Bachelor's or higher degree, plus work experience
11-9039	Education Administrators, All Other	4	Bachelor's or higher degree, plus work experience
11-9041	Engineering Managers	4	Bachelor's or higher degree, plus work experience
11-9051	Food Service Managers	8	Work experience in a related occupation
11-9061	Funeral Directors	6	Associate degree
11-9071	Gaming Managers	8	Work experience in a related occupation
11-9081	Lodging Managers	8	Work experience in a related occupation
11-9111	Medical and Health Services Managers	4	Bachelor's or higher degree, plus work experience

Standard Occupation Classification (SOC)*		Training Requirements	
Code	Occupation Title	Code	Training Description
11-9121	Natural Sciences Managers	4	Bachelor's or higher degree, plus work experience
11-9131	Postmasters and Mail Superintendents	8	Work experience in a related occupation
11-9141	Property, Real Estate, and Community Association Managers	5	Bachelor's degree
11-9151	Social and Community Service Managers	5	Bachelor's degree
11-9199	Managers, All Other	8	Work experience in a related occupation
13-1011	Agents and Business Managers of Artists, Performers, and Athletes	4	Bachelor's or higher degree, plus work experience
13-1021	Purchasing Agents and Buyers, Farm Products	8	Work experience in a related occupation
13-1022	Wholesale and Retail Buyers, Except Farm Products	8	Work experience in a related occupation
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	8	Work experience in a related occupation
13-1031	Claims Adjusters, Examiners, and Investigators	9	Long-term on-the-job training
13-1032	Insurance Appraisers, Auto Damage	9	Long-term on-the-job training
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and Transportation	9	Long-term on-the-job training
13-1051	Cost Estimators	8	Work experience in a related occupation
13-1061	Emergency Management Specialists	8	Work experience in a related occupation
13-1071	Employment, Recruitment, and Placement Specialists	5	Bachelor's degree
13-1072	Compensation, Benefits, and Job Analysis Specialists	5	Bachelor's degree
13-1073	Training and Development Specialists	5	Bachelor's degree
13-1079	Human Resources, Training, and Labor Relations Specialists, All Other	5	Bachelor's degree
13-1081	Logisticians	5	Bachelor's degree
13-1111	Management Analysts	4	Bachelor's or higher degree, plus work experience
13-1121	Meeting and Convention Planners	5	Bachelor's degree
13-1199	Business Operations Specialists, All Other	5	Bachelor's degree
13-2011	Accountants and Auditors	5	Bachelor's degree
13-2021	Appraisers and Assessors of Real Estate	7	Postsecondary vocational training
13-2031	Budget Analysts	5	Bachelor's degree
13-2041	Credit Analysts	5	Bachelor's degree
13-2051	Financial Analysts	5	Bachelor's degree
13-2052	Personal Financial Advisors	5	Bachelor's degree
13-2053	Insurance Underwriters	5	Bachelor's degree
13-2061	Financial Examiners	5	Bachelor's degree
13-2071	Loan Counselors	5	Bachelor's degree
13-2072	Loan Officers	5	Bachelor's degree
13-2081	Tax Examiners, Collectors, and Revenue Agents	5	Bachelor's degree
13-2082	Tax Preparers	10	Moderate-term on-the-job training
13-2099	Financial Specialists, All Other	5	Bachelor's degree
15-1011	Computer and Information Scientists, Research	2	Doctoral degree
15-1021	Computer Programmers	5	Bachelor's degree
15-1031	Computer Software Engineers, Applications	5	Bachelor's degree
15-1032	Computer Software Engineers, Systems Software	5	Bachelor's degree
15-1041	Computer Support Specialists	6	Associate degree
15-1051	Computer Systems Analysts	5	Bachelor's degree
15-1061	Database Administrators	5	Bachelor's degree

Standard Occupation Classification (SOC)*		Training Requirements	
Code	Occupation Title	Code	Training Description
15-1071	Network and Computer Systems Administrators	5	Bachelor's degree
15-1081	Network Systems and Data Communications Analysts	5	Bachelor's degree
15-1099	Computer Specialists, All Other	6	Associate degree
15-2011	Actuaries	4	Bachelor's or higher degree, plus work experience
15-2021	Mathematicians	2	Doctoral degree
15-2031	Operations Research Analysts	3	Master's degree
15-2041	Statisticians	3	Master's degree
15-2091	Mathematical Technicians	3	Master's degree
15-2099	Mathematical Science Occupations, All Other	3	Master's degree
17-1011	Architects, Except Landscape and Naval	5	Bachelor's degree
17-1012	Landscape Architects	5	Bachelor's degree
17-1021	Cartographers and Photogrammetrists	5	Bachelor's degree
17-1022	Surveyors	5	Bachelor's degree
17-2011	Aerospace Engineers	5	Bachelor's degree
17-2021	Agricultural Engineers	5	Bachelor's degree
17-2031	Biomedical Engineers	5	Bachelor's degree
17-2041	Chemical Engineers	5	Bachelor's degree
17-2051	Civil Engineers	5	Bachelor's degree
17-2061	Computer Hardware Engineers	5	Bachelor's degree
17-2071	Electrical Engineers	5	Bachelor's degree
17-2072	Electronics Engineers, Except Computer	5	Bachelor's degree
17-2081	Environmental Engineers	5	Bachelor's degree
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	5	Bachelor's degree
17-2112	Industrial Engineers	5	Bachelor's degree
17-2121	Marine Engineers and Naval Architects	5	Bachelor's degree
17-2131	Materials Engineers	5	Bachelor's degree
17-2141	Mechanical Engineers	5	Bachelor's degree
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	5	Bachelor's degree
17-2161	Nuclear Engineers	5	Bachelor's degree
17-2171	Petroleum Engineers	5	Bachelor's degree
17-2199	Engineers, All Other	5	Bachelor's degree
17-3011	Architectural and Civil Drafters	7	Postsecondary vocational training
17-3012	Electrical and Electronics Drafters	7	Postsecondary vocational training
17-3013	Mechanical Drafters	7	Postsecondary vocational training
17-3019	Drafters, All Other	7	Postsecondary vocational training
17-3021	Aerospace Engineering and Operations Technicians	6	Associate degree
17-3022	Civil Engineering Technicians	6	Associate degree
17-3023	Electrical and Electronic Engineering Technicians	6	Associate degree
17-3024	Electro-Mechanical Technicians	6	Associate degree
17-3025	Environmental Engineering Technicians	6	Associate degree
17-3026	Industrial Engineering Technicians	6	Associate degree
17-3027	Mechanical Engineering Technicians	6	Associate degree
17-3029	Engineering Technicians, Except Drafters, All Other	6	Associate degree
17-3031	Surveying and Mapping Technicians	10	Moderate-term on-the-job training
19-1011	Animal Scientists	5	Bachelor's degree
19-1012	Food Scientists and Technologists	5	Bachelor's degree
19-1013	Soil and Plant Scientists	5	Bachelor's degree
19-1021	Biochemists and Biophysicists	2	Doctoral degree
19-1022	Microbiologists	2	Doctoral degree
19-1023	Zoologists and Wildlife Biologists	5	Bachelor's degree
19-1029	Biological Scientists, All Other	5	Bachelor's degree
19-1031	Conservation Scientists	5	Bachelor's degree

Standard Occupation Classification (SOC)*		Training Requirements	
Code	Occupation Title	Code	Training Description
19-1032	Foresters	5	Bachelor's degree
19-1041	Epidemiologists	3	Master's degree
19-1042	Medical Scientists, Except Epidemiologists	2	Doctoral degree
19-1099	Life Scientists, All Other	5	Bachelor's degree
19-2011	Astronomers	2	Doctoral degree
19-2012	Physicists	2	Doctoral degree
19-2021	Atmospheric and Space Scientists	5	Bachelor's degree
19-2031	Chemists	5	Bachelor's degree
19-2032	Materials Scientists	5	Bachelor's degree
19-2041	Environmental Scientists and Specialists, Including Health	3	Master's degree
19-2042	Geoscientists, Except Hydrologists and Geographers	3	Master's degree
19-2043	Hydrologists	3	Master's degree
19-2099	Physical Scientists, All Other	5	Bachelor's degree
19-3011	Economists	3	Master's degree
19-3021	Market Research Analysts	5	Bachelor's degree
19-3022	Survey Researchers	5	Bachelor's degree
19-3031	Clinical, Counseling, and School Psychologists	2	Doctoral degree
19-3032	Industrial-Organizational Psychologists	3	Master's degree
19-3039	Psychologists, All Other	3	Master's degree
19-3041	Sociologists	3	Master's degree
19-3051	Urban and Regional Planners	3	Master's degree
19-3091	Anthropologists and Archeologists	3	Master's degree
19-3092	Geographers	3	Master's degree
19-3093	Historians	3	Master's degree
19-3094	Political Scientists	3	Master's degree
19-3099	Social Scientists and Related Workers, All Other	3	Master's degree
19-4011	Agricultural and Food Science Technicians	6	Associate degree
19-4021	Biological Technicians	6	Associate degree
19-4031	Chemical Technicians	6	Associate degree
19-4041	Geological and Petroleum Technicians	6	Associate degree
19-4051	Nuclear Technicians	6	Associate degree
19-4061	Social Science Research Assistants	6	Associate degree
19-4091	Environmental Science and Protection Technicians, Including Health	6	Associate degree
19-4092	Forensic Science Technicians	6	Associate degree
19-4093	Forest and Conservation Technicians	6	Associate degree
19-4099	Life, Physical, and Social Science Technicians, All Other	6	Associate degree
21-1011	Substance Abuse and Behavioral Disorder Counselors	3	Master's degree
21-1012	Educational, Vocational, and School Counselors	3	Master's degree
21-1013	Marriage and Family Therapists	3	Master's degree
21-1014	Mental Health Counselors	3	Master's degree
21-1015	Rehabilitation Counselors	3	Master's degree
21-1019	Counselors, All Other	3	Master's degree
21-1021	Child, Family, and School Social Workers	5	Bachelor's degree
21-1022	Medical and Public Health Social Workers	5	Bachelor's degree
21-1023	Mental Health and Substance Abuse Social Workers	3	Master's degree
21-1029	Social Workers, All Other	5	Bachelor's degree
21-1091	Health Educators	3	Master's degree
21-1092	Probation Officers and Correctional Treatment Specialists	5	Bachelor's degree
21-1093	Social and Human Service Assistants	10	Moderate-term on-the-job training
21-1099	Community and Social Service Specialists, All Other	5	Bachelor's degree
21-2011	Clergy	3	Master's degree
21-2021	Directors, Religious Activities and Education	5	Bachelor's degree
21-2099	Religious Workers, All Other	5	Bachelor's degree

Standard Occupation Classification (SOC)*		Training Requirements	
Code	Occupation Title	Code	Training Description
23-1011	Lawyers	1	First professional degree
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	4	Bachelor's or higher degree, plus work experience
23-1022	Arbitrators, Mediators, and Conciliators	4	Bachelor's or higher degree, plus work experience
23-1023	Judges, Magistrate Judges, and Magistrates	4	Bachelor's or higher degree, plus work experience
23-2011	Paralegals and Legal Assistants	6	Associate degree
23-2091	Court Reporters	7	Postsecondary vocational training
23-2092	Law Clerks	5	Bachelor's degree
23-2093	Title Examiners, Abstractors, and Searchers	10	Moderate-term on-the-job training
23-2099	Legal Support Workers, All Other	5	Bachelor's degree
25-1011	Business Teachers, Postsecondary	3	Master's degree
25-1021	Computer Science Teachers, Postsecondary	3	Master's degree
25-1022	Mathematical Science Teachers, Postsecondary	3	Master's degree
25-1031	Architecture Teachers, Postsecondary	2	Doctoral degree
25-1032	Engineering Teachers, Postsecondary	2	Doctoral degree
25-1041	Agricultural Sciences Teachers, Postsecondary	2	Doctoral degree
25-1042	Biological Science Teachers, Postsecondary	2	Doctoral degree
25-1043	Forestry and Conservation Science Teachers, Postsecondary	2	Doctoral degree
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	2	Doctoral degree
25-1052	Chemistry Teachers, Postsecondary	2	Doctoral degree
25-1053	Environmental Science Teachers, Postsecondary	2	Doctoral degree
25-1054	Physics Teachers, Postsecondary	2	Doctoral degree
25-1061	Anthropology and Archeology Teachers, Postsecondary	2	Doctoral degree
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	2	Doctoral degree
25-1063	Economics Teachers, Postsecondary	2	Doctoral degree
25-1064	Geography Teachers, Postsecondary	2	Doctoral degree
25-1065	Political Science Teachers, Postsecondary	2	Doctoral degree
25-1066	Psychology Teachers, Postsecondary	2	Doctoral degree
25-1067	Sociology Teachers, Postsecondary	2	Doctoral degree
25-1071	Health Specialties Teachers, Postsecondary	3	Master's degree
25-1072	Nursing Instructors and Teachers, Postsecondary	2	Doctoral degree
25-1081	Education Teachers, Postsecondary	2	Doctoral degree
25-1082	Library Science Teachers, Postsecondary	2	Doctoral degree
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	2	Doctoral degree
25-1112	Law Teachers, Postsecondary	1	First professional degree
25-1113	Social Work Teachers, Postsecondary	2	Doctoral degree
25-1121	Art, Drama, and Music Teachers, Postsecondary	3	Master's degree
25-1122	Communications Teachers, Postsecondary	2	Doctoral degree
25-1123	English Language and Literature Teachers, Postsecondary	3	Master's degree
25-1124	Foreign Language and Literature Teachers, Postsecondary	3	Master's degree
25-1125	History Teachers, Postsecondary	2	Doctoral degree
25-1126	Philosophy and Religion Teachers, Postsecondary	2	Doctoral degree
25-1191	Graduate Teaching Assistants	5	Bachelor's degree
25-1192	Home Economics Teachers, Postsecondary	3	Master's degree
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	3	Master's degree



Standard Occupation Classification (SOC)*		Training Requirements	
Code	Occupation Title	Code	Training Description
25-1194	Vocational Education Teachers, Postsecondary	4	Bachelor's or higher degree, plus work experience
25-1199	Postsecondary Teachers, All Other	2	Doctoral degree
25-2011	Preschool Teachers, Except Special Education	7	Postsecondary vocational training
25-2012	Kindergarten Teachers, Except Special Education	5	Bachelor's degree
25-2021	Elementary School Teachers, Except Special Education	5	Bachelor's degree
25-2022	Middle School Teachers, Except Special and Vocational Education	5	Bachelor's degree
25-2023	Vocational Education Teachers, Middle School	4	Bachelor's or higher degree, plus work experience
25-2031	Secondary School Teachers, Except Special and Vocational Education	5	Bachelor's degree
25-2032	Vocational Education Teachers, Secondary School	4	Bachelor's or higher degree, plus work experience
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	5	Bachelor's degree
25-2042	Special Education Teachers, Middle School	5	Bachelor's degree
25-2043	Special Education Teachers, Secondary School	5	Bachelor's degree
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	5	Bachelor's degree
25-3021	Self-Enrichment Education Teachers	8	Work experience in a related occupation
25-3099	Teachers and Instructors, All Other	5	Bachelor's degree
25-4011	Archivists	3	Master's degree
25-4012	Curators	3	Master's degree
25-4013	Museum Technicians and Conservators	3	Master's degree
25-4021	Librarians	3	Master's degree
25-4031	Library Technicians	7	Postsecondary vocational training
25-9011	Audio-Visual Collections Specialists	10	Moderate-term on-the-job training
25-9021	Farm and Home Management Advisors	5	Bachelor's degree
25-9031	Instructional Coordinators	3	Master's degree
25-9041	Teacher Assistants	11	Short-term on-the-job training
25-9099	Education, Training, and Library Workers, All Other	5	Bachelor's degree
27-1011	Art Directors	4	Bachelor's or higher degree, plus work experience
27-1012	Craft Artists	9	Long-term on-the-job training
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	9	Long-term on-the-job training
27-1014	Multi-Media Artists and Animators	5	Bachelor's degree
27-1019	Artists and Related Workers, All Other	9	Long-term on-the-job training
27-1021	Commercial and Industrial Designers	5	Bachelor's degree
27-1022	Fashion Designers	6	Associate degree
27-1023	Floral Designers	10	Moderate-term on-the-job training
27-1024	Graphic Designers	5	Bachelor's degree
27-1025	Interior Designers	6	Associate degree
27-1026	Merchandise Displayers and Window Trimmers	10	Moderate-term on-the-job training
27-1027	Set and Exhibit Designers	5	Bachelor's degree
27-1029	Designers, All Other	5	Bachelor's degree
27-2011	Actors	9	Long-term on-the-job training
27-2012	Producers and Directors	4	Bachelor's or higher degree, plus work experience
27-2021	Athletes and Sports Competitors	9	Long-term on-the-job training
27-2022	Coaches and Scouts	9	Long-term on-the-job training
27-2023	Umpires, Referees, and Other Sports Officials	9	Long-term on-the-job training
27-2031	Dancers	9	Long-term on-the-job training

Standard Occupation Classification (SOC)*		Training Requirements	
Code	Occupation Title	Code	Training Description
27-2032	Choreographers	8	Work experience in a related occupation
27-2041	Music Directors and Composers	4	Bachelor's or higher degree, plus work experience
27-2042	Musicians and Singers	9	Long-term on-the-job training
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	9	Long-term on-the-job training
27-3011	Radio and Television Announcers	9	Long-term on-the-job training
27-3012	Public Address System and Other Announcers	9	Long-term on-the-job training
27-3021	Broadcast News Analysts	4	Bachelor's or higher degree, plus work experience
27-3022	Reporters and Correspondents	4	Bachelor's or higher degree, plus work experience
27-3031	Public Relations Specialists	5	Bachelor's degree
27-3041	Editors	5	Bachelor's degree
27-3042	Technical Writers	5	Bachelor's degree
27-3043	Writers and Authors	5	Bachelor's degree
27-3091	Interpreters and Translators	9	Long-term on-the-job training
27-3099	Media and Communication Workers, All Other	9	Long-term on-the-job training
27-4011	Audio and Video Equipment Technicians	9	Long-term on-the-job training
27-4012	Broadcast Technicians	6	Associate degree
27-4013	Radio Operators	10	Moderate-term on-the-job training
27-4014	Sound Engineering Technicians	7	Postsecondary vocational training
27-4021	Photographers	9	Long-term on-the-job training
27-4031	Camera Operators, Television, Video, and Motion Picture	10	Moderate-term on-the-job training
27-4032	Film and Video Editors	5	Bachelor's degree
27-4099	Media and Communication Equipment Workers, All Other	10	Moderate-term on-the-job training
29-1011	Chiropractors	1	First professional degree
29-1021	Dentists, General	1	First professional degree
29-1022	Oral and Maxillofacial Surgeons	1	First professional degree
29-1023	Orthodontists	1	First professional degree
29-1029	Dentists, All Other Specialists	1	First professional degree
29-1031	Dietitians and Nutritionists	5	Bachelor's degree
29-1041	Optometrists	1	First professional degree
29-1051	Pharmacists	1	First professional degree
29-1061	Anesthesiologists	1	First professional degree
29-1062	Family and General Practitioners	1	First professional degree
29-1063	Internists, General	1	First professional degree
29-1064	Obstetricians and Gynecologists	1	First professional degree
29-1065	Pediatricians, General	1	First professional degree
29-1066	Psychiatrists	1	First professional degree
29-1067	Surgeons	1	First professional degree
29-1069	Physicians and Surgeons, All Other	1	First professional degree
29-1071	Physician Assistants	5	Bachelor's degree
29-1081	Podiatrists	1	First professional degree
29-1111	Registered Nurses	6	Associate degree
29-1121	Audiologists	1	First professional degree
29-1122	Occupational Therapists	3	Master's degree
29-1123	Physical Therapists	3	Master's degree
29-1124	Radiation Therapists	6	Associate degree
29-1125	Recreational Therapists	5	Bachelor's degree
29-1126	Respiratory Therapists	6	Associate degree
29-1127	Speech-Language Pathologists	3	Master's degree
29-1129	Therapists, All Other	5	Bachelor's degree

Standard Occupation Classification (SOC)*		Training Requirements	
Code	Occupation Title	Code	Training Description
29-1131	Veterinarians	1	First professional degree
29-1199	Health Diagnosing and Treating Practitioners, All Other	5	Bachelor's degree
29-2011	Medical and Clinical Laboratory Technologists	5	Bachelor's degree
29-2012	Medical and Clinical Laboratory Technicians	6	Associate degree
29-2021	Dental Hygienists	6	Associate degree
29-2031	Cardiovascular Technologists and Technicians	6	Associate degree
29-2032	Diagnostic Medical Sonographers	6	Associate degree
29-2033	Nuclear Medicine Technologists	6	Associate degree
29-2034	Radiologic Technologists and Technicians	6	Associate degree
29-2041	Emergency Medical Technicians and Paramedics	7	Postsecondary vocational training
29-2051	Dietetic Technicians	10	Moderate-term on-the-job training
29-2052	Pharmacy Technicians	10	Moderate-term on-the-job training
29-2053	Psychiatric Technicians	10	Moderate-term on-the-job training
29-2054	Respiratory Therapy Technicians	6	Associate degree
29-2055	Surgical Technologists	7	Postsecondary vocational training
29-2056	Veterinary Technologists and Technicians	6	Associate degree
29-2061	Licensed Practical and Licensed Vocational Nurses	7	Postsecondary vocational training
29-2071	Medical Records and Health Information Technicians	6	Associate degree
29-2081	Opticians, Dispensing	9	Long-term on-the-job training
29-2091	Orthotists and Prosthetists	5	Bachelor's degree
29-2099	Health Technologists and Technicians, All Other	7	Postsecondary vocational training
29-9011	Occupational Health and Safety Specialists	5	Bachelor's degree
29-9012	Occupational Health and Safety Technicians	7	Postsecondary vocational training
29-9091	Athletic Trainers	5	Bachelor's degree
29-9099	Healthcare Practitioners and Technical Workers, All Other	7	Postsecondary vocational training
31-1011	Home Health Aides	11	Short-term on-the-job training
31-1012	Nursing Aides, Orderlies, and Attendants	7	Postsecondary vocational training
31-1013	Psychiatric Aides	11	Short-term on-the-job training
31-2011	Occupational Therapist Assistants	6	Associate degree
31-2012	Occupational Therapist Aides	11	Short-term on-the-job training
31-2021	Physical Therapist Assistants	6	Associate degree
31-2022	Physical Therapist Aides	11	Short-term on-the-job training
31-9011	Massage Therapists	7	Postsecondary vocational training
31-9091	Dental Assistants	10	Moderate-term on-the-job training
31-9092	Medical Assistants	10	Moderate-term on-the-job training
31-9093	Medical Equipment Preparers	11	Short-term on-the-job training
31-9094	Medical Transcriptionists	7	Postsecondary vocational training
31-9095	Pharmacy Aides	11	Short-term on-the-job training
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	11	Short-term on-the-job training
31-9099	Healthcare Support Workers, All Other	11	Short-term on-the-job training
33-1011	First-Line Supervisors/Managers of Correctional Officers	8	Work experience in a related occupation
33-1012	First-Line Supervisors/Managers of Police and Detectives	8	Work experience in a related occupation
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	8	Work experience in a related occupation
33-1099	First-Line Supervisors/Managers, Protective Service Workers, All Other	8	Work experience in a related occupation
33-2011	Fire Fighters	9	Long-term on-the-job training
33-2021	Fire Inspectors and Investigators	8	Work experience in a related occupation
33-2022	Forest Fire Inspectors and Prevention Specialists	8	Work experience in a related occupation
33-3011	Bailiffs	10	Moderate-term on-the-job training

Standard Occupation Classification (SOC)*		Training Requirements	
Code	Occupation Title	Code	Training Description
33-3012	Correctional Officers and Jailers	10	Moderate-term on-the-job training
33-3021	Detectives and Criminal Investigators	8	Work experience in a related occupation
33-3031	Fish and Game Wardens	6	Associate degree
33-3041	Parking Enforcement Workers	11	Short-term on-the-job training
33-3051	Police and Sheriff's Patrol Officers	9	Long-term on-the-job training
33-3052	Transit and Railroad Police	9	Long-term on-the-job training
33-9011	Animal Control Workers	10	Moderate-term on-the-job training
33-9021	Private Detectives and Investigators	8	Work experience in a related occupation
33-9031	Gaming Surveillance Officers and Gaming Investigators	10	Moderate-term on-the-job training
33-9032	Security Guards	11	Short-term on-the-job training
33-9091	Crossing Guards	11	Short-term on-the-job training
33-9092	Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers	11	Short-term on-the-job training
33-9099	Protective Service Workers, All Other	11	Short-term on-the-job training
35-1011	Chefs and Head Cooks	8	Work experience in a related occupation
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Workers	8	Work experience in a related occupation
35-2011	Cooks, Fast Food	11	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	10	Moderate-term on-the-job training
35-2013	Cooks, Private Household	9	Long-term on-the-job training
35-2014	Cooks, Restaurant	9	Long-term on-the-job training
35-2015	Cooks, Short Order	11	Short-term on-the-job training
35-2019	Cooks, All Other	10	Moderate-term on-the-job training
35-2021	Food Preparation Workers	11	Short-term on-the-job training
35-3011	Bartenders	11	Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	11	Short-term on-the-job training
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	11	Short-term on-the-job training
35-3031	Waiters and Waitresses	11	Short-term on-the-job training
35-3041	Food Servers, Nonrestaurant	11	Short-term on-the-job training
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	11	Short-term on-the-job training
35-9021	Dishwashers	11	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	11	Short-term on-the-job training
35-9099	Food Preparation and Serving Related Workers, All Other	11	Short-term on-the-job training
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	8	Work experience in a related occupation
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, and Groundskeeping Workers	8	Work experience in a related occupation
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	11	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	11	Short-term on-the-job training
37-2019	Building Cleaning Workers, All Other	11	Short-term on-the-job training
37-2021	Pest Control Workers	10	Moderate-term on-the-job training
37-3011	Landscaping and Groundskeeping Workers	11	Short-term on-the-job training
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	10	Moderate-term on-the-job training
37-3013	Tree Trimmers and Pruners	11	Short-term on-the-job training
37-3019	Grounds Maintenance Workers, All Other	11	Short-term on-the-job training

Standard Occupation Classification (SOC)*		Training Requirements	
Code	Occupation Title	Code	Training Description
39-1011	Gaming Supervisors	8	Work experience in a related occupation
39-1012	Slot Key Persons	7	Postsecondary vocational training
39-1021	First-Line Supervisors/Managers of Personal Service Workers	8	Work experience in a related occupation
39-2011	Animal Trainers	10	Moderate-term on-the-job training
39-2021	Nonfarm Animal Caretakers	11	Short-term on-the-job training
39-3011	Gaming Dealers	7	Postsecondary vocational training
39-3012	Gaming and Sports Book Writers and Runners	11	Short-term on-the-job training
39-3019	Gaming Service Workers, All Other	10	Moderate-term on-the-job training
39-3021	Motion Picture Projectionists	11	Short-term on-the-job training
39-3031	Ushers, Lobby Attendants, and Ticket Takers	11	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	11	Short-term on-the-job training
39-3092	Costume Attendants	11	Short-term on-the-job training
39-3093	Locker Room, Coatroom, and Dressing Room Attendants	11	Short-term on-the-job training
39-3099	Entertainment Attendants and Related Workers, All Other	10	Moderate-term on-the-job training
39-4011	Embalmers	7	Postsecondary vocational training
39-4021	Funeral Attendants	11	Short-term on-the-job training
39-5011	Barbers	7	Postsecondary vocational training
39-5012	Hairdressers, Hairstylists, and Cosmetologists	7	Postsecondary vocational training
39-5091	Makeup Artists, Theatrical and Performance	7	Postsecondary vocational training
39-5092	Manicurists and Pedicurists	7	Postsecondary vocational training
39-5093	Shampooers	11	Short-term on-the-job training
39-5094	Skin Care Specialists	7	Postsecondary vocational training
39-6011	Baggage Porters and Bellhops	11	Short-term on-the-job training
39-6012	Concierges	10	Moderate-term on-the-job training
39-6021	Tour Guides and Escorts	10	Moderate-term on-the-job training
39-6022	Travel Guides	10	Moderate-term on-the-job training
39-6031	Flight Attendants	9	Long-term on-the-job training
39-6032	Transportation Attendants, Except Flight Attendants and Baggage Porters	11	Short-term on-the-job training
39-9011	Child Care Workers	11	Short-term on-the-job training
39-9021	Personal and Home Care Aides	11	Short-term on-the-job training
39-9031	Fitness Trainers and Aerobics Instructors	7	Postsecondary vocational training
39-9032	Recreation Workers	11	Short-term on-the-job training
39-9041	Residential Advisors	10	Moderate-term on-the-job training
39-9099	Personal Care and Service Workers, All Other	11	Short-term on-the-job training
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	8	Work experience in a related occupation
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	8	Work experience in a related occupation
41-2011	Cashiers	11	Short-term on-the-job training
41-2012	Gaming Change Persons and Booth Cashiers	11	Short-term on-the-job training
41-2021	Counter and Rental Clerks	11	Short-term on-the-job training
41-2022	Parts Salespersons	10	Moderate-term on-the-job training
41-2031	Retail Salespersons	11	Short-term on-the-job training
41-3011	Advertising Sales Agents	10	Moderate-term on-the-job training
41-3021	Insurance Sales Agents	5	Bachelor's degree
41-3031	Securities, Commodities, and Financial Services Sales Agents	5	Bachelor's degree
41-3041	Travel Agents	7	Postsecondary vocational training
41-3099	Sales Representatives, Services, All Other	10	Moderate-term on-the-job training
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	10	Moderate-term on-the-job training



Standard Occupation Classification (SOC)*		Training Requirements	
Code	Occupation Title	Code	Training Description
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	10	Moderate-term on-the-job training
41-9011	Demonstrators and Product Promoters	10	Moderate-term on-the-job training
41-9012	Models	10	Moderate-term on-the-job training
41-9021	Real Estate Brokers	8	Work experience in a related occupation
41-9022	Real Estate Sales Agents	7	Postsecondary vocational training
41-9031	Sales Engineers	5	Bachelor's degree
41-9041	Telemarketers	11	Short-term on-the-job training
41-9091	Door-To-Door Sales Workers, News and Street Vendors, and Related Workers	11	Short-term on-the-job training
41-9099	Sales and Related Workers, All Other	10	Moderate-term on-the-job training
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	8	Work experience in a related occupation
43-2011	Switchboard Operators, Including Answering Service	11	Short-term on-the-job training
43-2021	Telephone Operators	11	Short-term on-the-job training
43-2099	Communications Equipment Operators, All Other	11	Short-term on-the-job training
43-3011	Bill and Account Collectors	11	Short-term on-the-job training
43-3021	Billing and Posting Clerks and Machine Operators	10	Moderate-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	10	Moderate-term on-the-job training
43-3041	Gaming Cage Workers	11	Short-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	10	Moderate-term on-the-job training
43-3061	Procurement Clerks	11	Short-term on-the-job training
43-3071	Tellers	11	Short-term on-the-job training
43-4011	Brokerage Clerks	10	Moderate-term on-the-job training
43-4021	Correspondence Clerks	11	Short-term on-the-job training
43-4031	Court, Municipal, and License Clerks	11	Short-term on-the-job training
43-4041	Credit Authorizers, Checkers, and Clerks	11	Short-term on-the-job training
43-4051	Customer Service Representatives	10	Moderate-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	10	Moderate-term on-the-job training
43-4071	File Clerks	11	Short-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	11	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	11	Short-term on-the-job training
43-4121	Library Assistants, Clerical	11	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	11	Short-term on-the-job training
43-4141	New Accounts Clerks	8	Work experience in a related occupation
43-4151	Order Clerks	11	Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	11	Short-term on-the-job training
43-4171	Receptionists and Information Clerks	11	Short-term on-the-job training
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	11	Short-term on-the-job training
43-4199	Information and Record Clerks, All Other	11	Short-term on-the-job training
43-5011	Cargo and Freight Agents	10	Moderate-term on-the-job training
43-5021	Couriers and Messengers	11	Short-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	10	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	10	Moderate-term on-the-job training
43-5041	Meter Readers, Utilities	11	Short-term on-the-job training
43-5051	Postal Service Clerks	11	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	11	Short-term on-the-job training
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	11	Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	11	Short-term on-the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	11	Short-term on-the-job training

Standard Occupation Classification (SOC)*		Training Requirements	
Code	Occupation Title	Code	Training Description
43-5081	Stock Clerks and Order Fillers	11	Short-term on-the-job training
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	11	Short-term on-the-job training
43-6011	Executive Secretaries and Administrative Assistants	10	Moderate-term on-the-job training
43-6012	Legal Secretaries	7	Postsecondary vocational training
43-6013	Medical Secretaries	7	Postsecondary vocational training
43-6014	Secretaries, Except Legal, Medical, and Executive	10	Moderate-term on-the-job training
43-9011	Computer Operators	10	Moderate-term on-the-job training
43-9021	Data Entry Keyers	10	Moderate-term on-the-job training
43-9022	Word Processors and Typists	10	Moderate-term on-the-job training
43-9031	Desktop Publishers	7	Postsecondary vocational training
43-9041	Insurance Claims and Policy Processing Clerks	10	Moderate-term on-the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	11	Short-term on-the-job training
43-9061	Office Clerks, General	11	Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	11	Short-term on-the-job training
43-9081	Proofreaders and Copy Markers	11	Short-term on-the-job training
43-9111	Statistical Assistants	10	Moderate-term on-the-job training
43-9199	Office and Administrative Support Workers, All Other	11	Short-term on-the-job training
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	8	Work experience in a related occupation
45-1012	Farm Labor Contractors	8	Work experience in a related occupation
45-2011	Agricultural Inspectors	8	Work experience in a related occupation
45-2021	Animal Breeders	11	Short-term on-the-job training
45-2041	Graders and Sorters, Agricultural Products	8	Work experience in a related occupation
45-2091	Agricultural Equipment Operators	10	Moderate-term on-the-job training
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	11	Short-term on-the-job training
45-2093	Farmworkers, Farm and Ranch Animals	11	Short-term on-the-job training
45-2099	Agricultural Workers, All Other	11	Short-term on-the-job training
45-3011	Fishers and Related Fishing Workers	10	Moderate-term on-the-job training
45-3021	Hunters and Trappers	10	Moderate-term on-the-job training
45-4011	Forest and Conservation Workers	10	Moderate-term on-the-job training
45-4021	Fallers	10	Moderate-term on-the-job training
45-4022	Logging Equipment Operators	10	Moderate-term on-the-job training
45-4023	Log Graders and Scalers	10	Moderate-term on-the-job training
45-4029	Logging Workers, All Other	10	Moderate-term on-the-job training
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	8	Work experience in a related occupation
47-2011	Boilermakers	9	Long-term on-the-job training
47-2021	Brickmasons and Blockmasons	9	Long-term on-the-job training
47-2022	Stonemasons	9	Long-term on-the-job training
47-2031	Carpenters	9	Long-term on-the-job training
47-2041	Carpet Installers	10	Moderate-term on-the-job training
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	10	Moderate-term on-the-job training
47-2043	Floor Sanders and Finishers	10	Moderate-term on-the-job training
47-2044	Tile and Marble Setters	9	Long-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	10	Moderate-term on-the-job training
47-2053	Terrazzo Workers and Finishers	9	Long-term on-the-job training
47-2061	Construction Laborers	10	Moderate-term on-the-job training
47-2071	Paving, Surfacing, and Tamping Equipment Operators	10	Moderate-term on-the-job training
47-2072	Pile-Driver Operators	10	Moderate-term on-the-job training

Standard Occupation Classification (SOC)*		Training Requirements	
Code	Occupation Title	Code	Training Description
47-2073	Operating Engineers and Other Construction Equipment Operators	10	Moderate-term on-the-job training
47-2081	Drywall and Ceiling Tile Installers	10	Moderate-term on-the-job training
47-2082	Tapers	10	Moderate-term on-the-job training
47-2111	Electricians	9	Long-term on-the-job training
47-2121	Glaziers	9	Long-term on-the-job training
47-2131	Insulation Workers, Floor, Ceiling, and Wall	10	Moderate-term on-the-job training
47-2132	Insulation Workers, Mechanical	10	Moderate-term on-the-job training
47-2141	Painters, Construction and Maintenance	10	Moderate-term on-the-job training
47-2142	Paperhangers	10	Moderate-term on-the-job training
47-2151	Pipelayers	10	Moderate-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	9	Long-term on-the-job training
47-2161	Plasterers and Stucco Masons	9	Long-term on-the-job training
47-2171	Reinforcing Iron and Rebar Workers	9	Long-term on-the-job training
47-2181	Roofers	10	Moderate-term on-the-job training
47-2211	Sheet Metal Workers	9	Long-term on-the-job training
47-2221	Structural Iron and Steel Workers	9	Long-term on-the-job training
47-3011	Helpers--Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	11	Short-term on-the-job training
47-3012	Helpers--Carpenters	11	Short-term on-the-job training
47-3013	Helpers--Electricians	11	Short-term on-the-job training
47-3014	Helpers--Painters, Paperhangers, Plasterers, and Stucco Masons	11	Short-term on-the-job training
47-3015	Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters	11	Short-term on-the-job training
47-3016	Helpers--Roofers	11	Short-term on-the-job training
47-3019	Helpers, Construction Trades, All Other	11	Short-term on-the-job training
47-4011	Construction and Building Inspectors	8	Work experience in a related occupation
47-4021	Elevator Installers and Repairers	9	Long-term on-the-job training
47-4031	Fence Erectors	10	Moderate-term on-the-job training
47-4041	Hazardous Materials Removal Workers	10	Moderate-term on-the-job training
47-4051	Highway Maintenance Workers	10	Moderate-term on-the-job training
47-4061	Rail-Track Laying and Maintenance Equipment Operators	10	Moderate-term on-the-job training
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	10	Moderate-term on-the-job training
47-4091	Segmental Pavers	10	Moderate-term on-the-job training
47-4099	Construction and Related Workers, All Other	10	Moderate-term on-the-job training
47-5011	Derrick Operators, Oil and Gas	10	Moderate-term on-the-job training
47-5012	Rotary Drill Operators, Oil and Gas	10	Moderate-term on-the-job training
47-5013	Service Unit Operators, Oil, Gas, and Mining	10	Moderate-term on-the-job training
47-5021	Earth Drillers, Except Oil and Gas	10	Moderate-term on-the-job training
47-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	10	Moderate-term on-the-job training
47-5041	Continuous Mining Machine Operators	10	Moderate-term on-the-job training
47-5042	Mine Cutting and Channeling Machine Operators	10	Moderate-term on-the-job training
47-5049	Mining Machine Operators, All Other	10	Moderate-term on-the-job training
47-5051	Rock Splitters, Quarry	10	Moderate-term on-the-job training
47-5061	Roof Bolters, Mining	10	Moderate-term on-the-job training
47-5071	Roustabouts, Oil and Gas	10	Moderate-term on-the-job training
47-5081	Helpers--Extraction Workers	11	Short-term on-the-job training
47-5099	Extraction Workers, All Other	10	Moderate-term on-the-job training
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	8	Work experience in a related occupation
49-2011	Computer, Automated Teller, and Office Machine Repairers	7	Postsecondary vocational training

Standard Occupation Classification (SOC)*		Training Requirements	
Code	Occupation Title	Code	Training Description
49-2021	Radio Mechanics	7	Postsecondary vocational training
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	9	Long-term on-the-job training
49-2091	Avionics Technicians	7	Postsecondary vocational training
49-2092	Electric Motor, Power Tool, and Related Repairers	7	Postsecondary vocational training
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	7	Postsecondary vocational training
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	7	Postsecondary vocational training
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	7	Postsecondary vocational training
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	7	Postsecondary vocational training
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	7	Postsecondary vocational training
49-2098	Security and Fire Alarm Systems Installers	7	Postsecondary vocational training
49-3011	Aircraft Mechanics and Service Technicians	7	Postsecondary vocational training
49-3021	Automotive Body and Related Repairers	9	Long-term on-the-job training
49-3022	Automotive Glass Installers and Repairers	9	Long-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	7	Postsecondary vocational training
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	7	Postsecondary vocational training
49-3041	Farm Equipment Mechanics	7	Postsecondary vocational training
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	7	Postsecondary vocational training
49-3043	Rail Car Repairers	9	Long-term on-the-job training
49-3051	Motorboat Mechanics	9	Long-term on-the-job training
49-3052	Motorcycle Mechanics	9	Long-term on-the-job training
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	10	Moderate-term on-the-job training
49-3091	Bicycle Repairers	10	Moderate-term on-the-job training
49-3092	Recreational Vehicle Service Technicians	9	Long-term on-the-job training
49-3093	Tire Repairers and Changers	11	Short-term on-the-job training
49-9011	Mechanical Door Repairers	10	Moderate-term on-the-job training
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	10	Moderate-term on-the-job training
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	9	Long-term on-the-job training
49-9031	Home Appliance Repairers	9	Long-term on-the-job training
49-9041	Industrial Machinery Mechanics	9	Long-term on-the-job training
49-9042	Maintenance and Repair Workers, General	10	Moderate-term on-the-job training
49-9043	Maintenance Workers, Machinery	11	Short-term on-the-job training
49-9044	Millwrights	9	Long-term on-the-job training
49-9045	Refractory Materials Repairers, Except Brickmasons	10	Moderate-term on-the-job training
49-9051	Electrical Power-Line Installers and Repairers	9	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	9	Long-term on-the-job training
49-9061	Camera and Photographic Equipment Repairers	10	Moderate-term on-the-job training
49-9062	Medical Equipment Repairers	6	Associate degree
49-9063	Musical Instrument Repairers and Tuners	9	Long-term on-the-job training
49-9064	Watch Repairers	9	Long-term on-the-job training
49-9069	Precision Instrument and Equipment Repairers, All Other	10	Moderate-term on-the-job training
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	10	Moderate-term on-the-job training
49-9093	Fabric Menders, Except Garment	10	Moderate-term on-the-job training
49-9094	Locksmiths and Safe Repairers	10	Moderate-term on-the-job training
49-9095	Manufactured Building and Mobile Home Installers	10	Moderate-term on-the-job training
49-9096	Riggers	11	Short-term on-the-job training



Standard Occupation Classification (SOC)*		Training Requirements	
Code	Occupation Title	Code	Training Description
49-9097	Signal and Track Switch Repairers	10	Moderate-term on-the-job training
49-9098	Helpers--Installation, Maintenance, and Repair Workers	11	Short-term on-the-job training
49-9099	Installation, Maintenance, and Repair Workers, All Other	10	Moderate-term on-the-job training
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	8	Work experience in a related occupation
51-2011	Aircraft Structure, Surfaces, Rigging, and Systems Assemblers	9	Long-term on-the-job training
51-2021	Coil Winders, Tapers, and Finishers	11	Short-term on-the-job training
51-2022	Electrical and Electronic Equipment Assemblers	11	Short-term on-the-job training
51-2023	Electromechanical Equipment Assemblers	11	Short-term on-the-job training
51-2031	Engine and Other Machine Assemblers	11	Short-term on-the-job training
51-2041	Structural Metal Fabricators and Fitters	10	Moderate-term on-the-job training
51-2091	Fiberglass Laminators and Fabricators	10	Moderate-term on-the-job training
51-2092	Team Assemblers	10	Moderate-term on-the-job training
51-2093	Timing Device Assemblers, Adjusters, and Calibrators	10	Moderate-term on-the-job training
51-2099	Assemblers and Fabricators, All Other	10	Moderate-term on-the-job training
51-3011	Bakers	9	Long-term on-the-job training
51-3021	Butchers and Meat Cutters	9	Long-term on-the-job training
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	11	Short-term on-the-job training
51-3023	Slaughterers and Meat Packers	10	Moderate-term on-the-job training
51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	11	Short-term on-the-job training
51-3092	Food Batchmakers	11	Short-term on-the-job training
51-3093	Food Cooking Machine Operators and Tenders	11	Short-term on-the-job training
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	10	Moderate-term on-the-job training
51-4012	Numerical Tool and Process Control Programmers	9	Long-term on-the-job training
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	10	Moderate-term on-the-job training
51-4022	Forging Machine Setters, Operators, and Tenders, Metal and Plastic	10	Moderate-term on-the-job training
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	10	Moderate-term on-the-job training
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	10	Moderate-term on-the-job training
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	10	Moderate-term on-the-job training
51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	10	Moderate-term on-the-job training
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	10	Moderate-term on-the-job training
51-4035	Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic	10	Moderate-term on-the-job training
51-4041	Machinists	9	Long-term on-the-job training
51-4051	Metal-Refining Furnace Operators and Tenders	10	Moderate-term on-the-job training
51-4052	Pourers and Casters, Metal	10	Moderate-term on-the-job training
51-4061	Model Makers, Metal and Plastic	10	Moderate-term on-the-job training
51-4062	Patternmakers, Metal and Plastic	10	Moderate-term on-the-job training
51-4071	Foundry Mold and Coremakers	10	Moderate-term on-the-job training
51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	10	Moderate-term on-the-job training
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	10	Moderate-term on-the-job training
51-4111	Tool and Die Makers	9	Long-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	9	Long-term on-the-job training



Standard Occupation Classification (SOC)*		Training Requirements	
Code	Occupation Title	Code	Training Description
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	10	Moderate-term on-the-job training
51-4191	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	10	Moderate-term on-the-job training
51-4192	Lay-Out Workers, Metal and Plastic	10	Moderate-term on-the-job training
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	10	Moderate-term on-the-job training
51-4194	Tool Grinders, Filers, and Sharpeners	10	Moderate-term on-the-job training
51-4199	Metal Workers and Plastic Workers, All Other	10	Moderate-term on-the-job training
51-5011	Bindery Workers	11	Short-term on-the-job training
51-5012	Bookbinders	10	Moderate-term on-the-job training
51-5021	Job Printers	9	Long-term on-the-job training
51-5022	Prepress Technicians and Workers	7	Postsecondary vocational training
51-5023	Printing Machine Operators	10	Moderate-term on-the-job training
51-6011	Laundry and Dry-Cleaning Workers	10	Moderate-term on-the-job training
51-6021	Pressers, Textile, Garment, and Related Materials	11	Short-term on-the-job training
51-6031	Sewing Machine Operators	10	Moderate-term on-the-job training
51-6041	Shoe and Leather Workers and Repairers	9	Long-term on-the-job training
51-6051	Sewers, Hand	11	Short-term on-the-job training
51-6052	Tailors, Dressmakers, and Custom Sewers	9	Long-term on-the-job training
51-6061	Textile Bleaching and Dyeing Machine Operators and Tenders	10	Moderate-term on-the-job training
51-6062	Textile Cutting Machine Setters, Operators, and Tenders	10	Moderate-term on-the-job training
51-6063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	9	Long-term on-the-job training
51-6064	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	10	Moderate-term on-the-job training
51-6091	Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers	10	Moderate-term on-the-job training
51-6092	Fabric and Apparel Patternmakers	9	Long-term on-the-job training
51-6093	Upholsterers	9	Long-term on-the-job training
51-6099	Textile, Apparel, and Furnishings Workers, All Other	11	Short-term on-the-job training
51-7011	Cabinetmakers and Bench Carpenters	9	Long-term on-the-job training
51-7021	Furniture Finishers	9	Long-term on-the-job training
51-7031	Model Makers, Wood	9	Long-term on-the-job training
51-7032	Patternmakers, Wood	9	Long-term on-the-job training
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	10	Moderate-term on-the-job training
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	10	Moderate-term on-the-job training
51-7099	Woodworkers, All Other	10	Moderate-term on-the-job training
51-8011	Nuclear Power Reactor Operators	9	Long-term on-the-job training
51-8012	Power Distributors and Dispatchers	9	Long-term on-the-job training
51-8013	Power Plant Operators	9	Long-term on-the-job training
51-8021	Stationary Engineers and Boiler Operators	9	Long-term on-the-job training
51-8031	Water and Liquid Waste Treatment Plant and System Operators	9	Long-term on-the-job training
51-8091	Chemical Plant and System Operators	9	Long-term on-the-job training
51-8092	Gas Plant Operators	9	Long-term on-the-job training
51-8093	Petroleum Pump System Operators, Refinery Operators, and Gaugers	9	Long-term on-the-job training
51-8099	Plant and System Operators, All Other	9	Long-term on-the-job training
51-9011	Chemical Equipment Operators and Tenders	10	Moderate-term on-the-job training
51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	10	Moderate-term on-the-job training

Standard Occupation Classification (SOC)*		Training Requirements	
Code	Occupation Title	Code	Training Description
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	10	Moderate-term on-the-job training
51-9022	Grinding and Polishing Workers, Hand	10	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	10	Moderate-term on-the-job training
51-9031	Cutters and Trimmers, Hand	11	Short-term on-the-job training
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	10	Moderate-term on-the-job training
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	10	Moderate-term on-the-job training
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	10	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	10	Moderate-term on-the-job training
51-9071	Jewelers and Precious Stone and Metal Workers	7	Postsecondary vocational training
51-9081	Dental Laboratory Technicians	9	Long-term on-the-job training
51-9082	Medical Appliance Technicians	9	Long-term on-the-job training
51-9083	Ophthalmic Laboratory Technicians	10	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	11	Short-term on-the-job training
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	10	Moderate-term on-the-job training
51-9122	Painters, Transportation Equipment	9	Long-term on-the-job training
51-9123	Painting, Coating, and Decorating Workers	11	Short-term on-the-job training
51-9131	Photographic Process Workers	10	Moderate-term on-the-job training
51-9132	Photographic Processing Machine Operators	11	Short-term on-the-job training
51-9141	Semiconductor Processors	6	Associate degree
51-9191	Cementing and Gluing Machine Operators and Tenders	10	Moderate-term on-the-job training
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	10	Moderate-term on-the-job training
51-9193	Cooling and Freezing Equipment Operators and Tenders	10	Moderate-term on-the-job training
51-9194	Etchers and Engravers	9	Long-term on-the-job training
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	10	Moderate-term on-the-job training
51-9196	Paper Goods Machine Setters, Operators, and Tenders	10	Moderate-term on-the-job training
51-9197	Tire Builders	10	Moderate-term on-the-job training
51-9198	Helpers--Production Workers	11	Short-term on-the-job training
51-9199	Production Workers, All Other	10	Moderate-term on-the-job training
53-1011	Aircraft Cargo Handling Supervisors	8	Work experience in a related occupation
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand	8	Work experience in a related occupation
53-1031	First-Line Supervisors/Managers of Transportation and Material-Moving Machine and Vehicle Operators	8	Work experience in a related occupation
53-2011	Airline Pilots, Copilots, and Flight Engineers	5	Bachelor's degree
53-2012	Commercial Pilots	7	Postsecondary vocational training
53-2021	Air Traffic Controllers	9	Long-term on-the-job training
53-2022	Airfield Operations Specialists	9	Long-term on-the-job training
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	10	Moderate-term on-the-job training
53-3021	Bus Drivers, Transit and Intercity	10	Moderate-term on-the-job training
53-3022	Bus Drivers, School	11	Short-term on-the-job training
53-3031	Driver/Sales Workers	11	Short-term on-the-job training
53-3032	Truck Drivers, Heavy and Tractor-Trailer	10	Moderate-term on-the-job training
53-3033	Truck Drivers, Light or Delivery Services	11	Short-term on-the-job training
53-3041	Taxi Drivers and Chauffeurs	11	Short-term on-the-job training
53-3099	Motor Vehicle Operators, All Other	11	Short-term on-the-job training

Standard Occupation Classification (SOC)*		Training Requirements	
Code	Occupation Title	Code	Training Description
53-4011	Locomotive Engineers	10	Moderate-term on-the-job training
53-4012	Locomotive Firers	10	Moderate-term on-the-job training
53-4013	Rail Yard Engineers, Dinkey Operators, and Hostlers	10	Moderate-term on-the-job training
53-4021	Railroad Brake, Signal, and Switch Operators	10	Moderate-term on-the-job training
53-4031	Railroad Conductors and Yardmasters	10	Moderate-term on-the-job training
53-4099	Rail Transportation Workers, All Other	10	Moderate-term on-the-job training
53-5011	Sailors and Marine Oilers	11	Short-term on-the-job training
53-5021	Captains, Mates, and Pilots of Water Vessels	8	Work experience in a related occupation
53-5022	Motorboat Operators	10	Moderate-term on-the-job training
53-5031	Ship Engineers	7	Postsecondary vocational training
53-6011	Bridge and Lock Tenders	11	Short-term on-the-job training
53-6021	Parking Lot Attendants	11	Short-term on-the-job training
53-6031	Service Station Attendants	11	Short-term on-the-job training
53-6041	Traffic Technicians	11	Short-term on-the-job training
53-6051	Transportation Inspectors	8	Work experience in a related occupation
53-6099	Transportation Workers, All Other	11	Short-term on-the-job training
53-7011	Conveyor Operators and Tenders	11	Short-term on-the-job training
53-7021	Crane and Tower Operators	9	Long-term on-the-job training
53-7031	Dredge Operators	10	Moderate-term on-the-job training
53-7032	Excavating and Loading Machine and Dragline Operators	10	Moderate-term on-the-job training
53-7033	Loading Machine Operators, Underground Mining	10	Moderate-term on-the-job training
53-7041	Hoist and Winch Operators	10	Moderate-term on-the-job training
53-7051	Industrial Truck and Tractor Operators	11	Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	11	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	11	Short-term on-the-job training
53-7063	Machine Feeders and Offbearers	11	Short-term on-the-job training
53-7064	Packers and Packagers, Hand	11	Short-term on-the-job training
53-7071	Gas Compressor and Gas Pumping Station Operators	10	Moderate-term on-the-job training
53-7072	Pump Operators, Except Wellhead Pumpers	10	Moderate-term on-the-job training
53-7073	Wellhead Pumpers	10	Moderate-term on-the-job training
53-7081	Refuse and Recyclable Material Collectors	11	Short-term on-the-job training
53-7111	Shuttle Car Operators	11	Short-term on-the-job training
53-7121	Tank Car, Truck, and Ship Loaders	10	Moderate-term on-the-job training
53-7199	Material Moving Workers, All Other	10	Moderate-term on-the-job training

\*For more information on the Standard Occupational Classification (SOC) system, see: [www.bls.gov/soc/socguide.htm](http://www.bls.gov/soc/socguide.htm)

These descriptions are provided as general guidelines and are **not** absolute requirements for employment.

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